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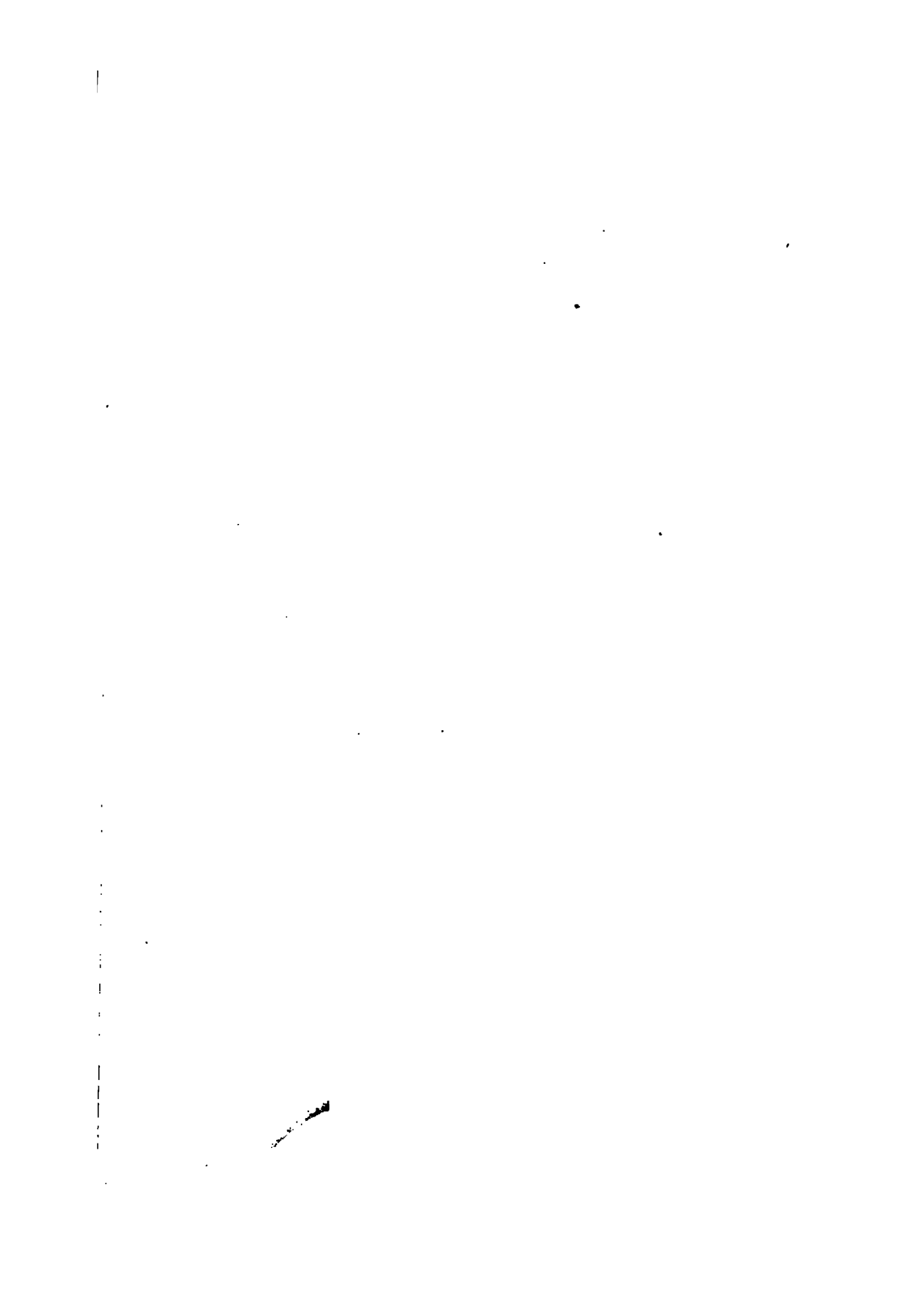
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VOLUME II

DECEMBER, 1902

**Prepared by the Secretary
under the direction of
The Library Committee**

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PREFACE.

The value of a published Catalogue of the Library of the American Society of Civil Engineers having been demonstrated in the two and a half years since the date of the first Volume (June, 1900), and the growth of the Library having been rapid during that period, the Board of Direction has decided to issue a second volume.

The present volume contains references to all new books received between June, 1900, and December, 1902, and also to periodicals, to the files of which there have been accessions.

The present volume, like Vol. I, contains the **Classified Index** only, the **Author** and **Subject Indexes** being available for consultation in the Reading-Room.

Naturally there have not been accessions in every subdivision, but for convenience the whole classification is reproduced in the Table of Contents and Index; absence of page numbers for any subdivision indicates that no new books have been added.

The pages containing the "List showing Classification of Special Subjects," "Explanatory Notes," and "Abbreviations," are also reproduced from Vol. I.

CHAS. WARREN HUNT,
Secretary.

New York, December, 1902.

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This list is printed as an aid to the use of the catalogue, and contains only subjects the classification of which must be determined by a careful study of the whole scheme, and subjects which have necessarily been classified under more than one head. When the class letters are not enclosed in parentheses, they indicate the subdivision where the subject is primarily classed; when so enclosed, they indicate the class in which some material on that subject may be found.

Acoustics.....	YI	Electro-Magnetism	Ha
Almanacs	U	Engines :	
Aqueducts.....	Dc Cf	Gas	Ga
Armor Plate	Kd Lc	Locomotive.....	Ad
Asphalt	Yh	Petroleum	Ga
Asphalt Pavements.....	Ne	Pumping	Dc (Da De Ec Ma)
Assaying.....	Yi	Marine	Gc
Automobiles.....	Ga	Traction	Gc
Barometers.....	YJ (R)	Evaporation.....	YJ (Da)
Beacons ..	Cc	Explorations	Qe
Brick	Jc	Explosives.....	Ld Ma (Ac)
Brick-Making.....	Jc (Ga)	Ferries.....	Cc (Ad)
Buoys	Cc	Filtration	Db Ee
Caissons.	Fa (Cc)	Finance	Zj
Carpentry.....	Ja	Foundations	Ja
Cast Iron	Jc	Fuel	Gd (Za)
Cathedrals.....	Ja (Jb)	Gold.....	Yi
Cement.....	Jc	Graphical Statics.....	Fa
Chimneys.	Ja	Horticulture.....	Yb
Coal.....	Yh	Hydraulics.....	Da (Cb Dc De Ec)
Concrete.	Jc	Hydrodynamics.....	Da (Dd)
Continuous Girders.	Fe	Hydrostatics	Da
Copper.....	Yi	Hygrometers	Yj
Dams :		Indexes	U
Coffer.....	Fa	Iron	Yh
Fixed.	Da (Cb Dc Dd De)	Labor.....	Zj
Movable.....	Cb (De)	Land Reclamation.....	Eb
Dredging	Ca (Cb Cc Cd)	Lighthouses.....	Cc
Dry Docks	Kb	Lightships.....	Cc
Dynamics	V YI	Locomotives.....	Ad
Earthwork	Ac	Magnetism.....	Ha YI

CLASSIFICATION OF SPECIAL SUBJECTS.

9

Manometers.....	Gc	Roofs.....	Ja (Fa Fb)
Map-Making.....	R	Rope Transmission.....	Ga
Masonry.....	V Ja	Shell Roads.....	Nc
Mechanics.....	V	Ship Building.....	Ka
Mineralogy.....	Yh	Ship-Railroads.....	(Ab Ac)
Oil Wells.....	Yh	Silver.....	Yi
Optics.....	Yi	Specifications (General).....	V
Ornithology.....	Yn	Steel.....	Jc
Paint.....	Jc	Street Cleaning.....	Ef
Paleontology.....	Yh	Strength of Materials.....	V
Petroleum.....	Yh	Tariff.....	Zj
Piles and Pile-Driving...Ja (Fa Cc)		Testing Machines.....	Ga
Planing Machines.....	Ga	Thermodynamics.....	Yi
Pottery.....	Ze	Thermometers.....	Yj
Preservation of Timber.....	Jc	Timber.....	Jc
Rainfall.....	Yj	Tubular Bridges.....	Fe
Reservoirs.....	Da (Dc De)	Tunnels.....	Ac Bc Dc
Retaining Walls.....	Ac	Wages.....	Zj
Riparian Rights..Ca (Cb Cc Dc De)		Wrought Iron.....	Jc

EXPLANATORY NOTES.

In this Catalogue each book is indexed in its proper class under the author's name, or under the subject, or the name of a particular Structure, Waterway, Corporation, Municipality or State.

Under "Municipal Reports" (O) are classed many reports which are so general or inclusive that they cannot be placed in special classes; cross references to them, however, are given under the subjects they cover.

When the number precedes the title, the book has been placed in the class where it appears; when the class letter and number come after the title, part of a volume of bound pamphlets classed elsewhere is indicated. When the reference letter and number are enclosed in parentheses and preceded by the word "See," the entry is a cross-reference to the contents of a book indexed elsewhere.

ABBREVIATIONS USED.

anon. . . .	anonymous.	pp.	pages.
apx.	appendix.	pap.	paper.
b. p.	bound pamphlet.	phot.	photograph or photographs
bds.	boards.	pl.	plate or plates.
cf.	calf.	por.	portrait or portraits.
cl.	cloth.	pref.	prefatory.
comp.	compiled or compiler.	pseud.	pseudonym.
Cong.	Congress.	Pt.	Part.
cor.	corrected.	pub.	published or publisher.
doc.	document.	rep.	report.
dk.	duck.	rev.	revised.
ed.	edited, edition or editor.	ro.	roan.
enl.	enlarged.	rus.	russia.
ex.	executive.	sh.	sheep.
facsim.	facsimile.	skiv.	skiver.
fr.	from.	Sec.	Section.
il.	illustrated.	Ser.	Series.
imp.	improved.	Sess.	Session.
misc.	miscellaneous.	tab.	table or tables.
mor.	morocco.	tr.	translated.
No.	Number.	v.	volume or volumes.
p.	page.	vel.	vellum.
		vs.	versus.

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ACCESSIONS FROM JUNE, 1900, TO DECEMBER, 1902.

RAILROADS.

RAILROADS—GENERAL.

Aa

- 97 **ALEXANDER, E. P.** Railway practice: its principles and suggested reforms reviewed. N. Y., 1887. 60 pp., tab., 8 x 6, cl.
- AMERICAN ASSOCIATION OF GENERAL PASSENGER AND TICKET AGENTS.** Proceedings at the annual convention; 1898. (See Sa3-172.1.)
- 84 **AMERICAN ECONOMIC ASSOCIATION.** Railway question: The report of the Committee on Transportation; with the paper read at the Boston meeting, May 21st-25th, 1887, on "The agitation for federal regulation of railways," by Edmund J. James. (Publications, v. 2, No. 3.) no place, 1887. 68 pp., 9 x 6, b. p.
- 44 **AMERICAN RAILROAD MANUAL FOR THE UNITED STATES AND THE Dominion (Canada),** containing full particulars of the mileage, capital stock, bonded debt, equipment, earnings, expenses, and other statistics of railroads, as now built and in process of construction; comp. and ed. by Edward Vernon; 1874. N. Y., 1874. 1 v., maps, 11 x 7, cl.
- AMERICAN RAILWAY ASSOCIATION.** Proceedings of the General Time Convention; Apr., 1887-Apr., '89; Oct., '90. (See Sa3-88.2.)
- AMERICAN RAILWAY ENGINEERING AND MAINTENANCE-OF-WAY ASSOCIATION.** Proceedings of the annual convention; 1900-02. (See Sa3-114.2.)
- 102 **ARGOLLO, M. de T. e.** Parecer apresentado a Comissão executiva do Congresso de Engenharia e Indústria do Club de Engenharia. Note: Relates to the financial advantages of constructing new railroads, provisions for strengthening the systems and increasing their utility. Bahia, 1901. 104 pp., 9 x 6, cl.
- 85 **ASHLEY, O. D.** Anti-railway legislation. N. Y., 1889. 24 pp., 9 x 6, b. p.
- 85 — Stock market and the railway problem. no place, no date. 22 pp., 9 x 6, b. p.
- ASSOCIATION OF NORTH AMERICAN RAILROAD SUPERINTENDENTS.** Proceedings of the meeting; 1889. (See Sa3-182.2.)
- ASSOCIATION OF RAILWAY SUPERINTENDENTS OF BRIDGES AND BUILDINGS.** Proceedings of the annual convention; 1891, '99-1901. (See Sa3-45.1.)
- 70 **BEACH, C. F., Jr.** The proposed railway trust. no place, 1889. 14 pp., 6 x 4, pap.
- BERG, W. G.** Education of railroad men for subordinate positions of responsibility, more particularly with reference to employees of the bridge and building department of railroads. 1900. (See Ye-280.)
- 99 **BIOGRAPHICAL DIRECTORY OF THE RAILWAY OFFICIALS OF AMERICA;** 1887. Chic., 1887. 1 v., por., 9 x 6, cl.
- 85 **BLACKSTONE, T. B.** Danger and wrong of existing legislation concerning railways; a review of its results; government ownership of railways advocated, instead of the present public policy. Chic., 1890. 99 pp., 9 x 6, b. p.
- 98 **BONHAM, J. M.** Railway secrecy and trusts. N. Y., 1890. 138 pp., 8 x 6, cl.
- 101 **BRADSHAW'S RAILWAY MANUAL, SHAREHOLDERS' GUIDE AND OFFICIAL directory;** 1882-94 (v. 24-46). Lond., 1882-94. 13 v., maps, 7 x 5, cl.

Aa—(Continued).

- BROUGHTON, FREDERICK, comp. Catalogue of a collection of books on railway legislation, management, etc. Lond., Ont., 1888. 18 pp., 9 x 6, b. p. Ab-455, p. 267.
- CAMPREDON, EUGENE. Rôle économique et social des voies de communication. (Bibliothèque du Conducteur de Travaux Publics.) 1899. (See Zj-208.)
- CARTER, T. J. Our railroad system. Springfield, Ill., 1878. 42 pp., 9 x 6, b. p. no title-page. Ah-77, p. 277.
- CURTIS, G. T. Doctrine of presumed dedication of private property to public use, in its application to railroads. N. Y., 1881. 40 pp., 9 x 6, b. p. Ae-396, p. 186.
- Ownership of railroad property. N. Y., 1881. pp. 345-355, 9 x 6, b. p. Af-304, p. 525.
- FINK, ALBERT. Interstate commerce: Argument before the Committee on Commerce of the United States House of Representatives, Jan. 26th, 1884. Wash., 1884. 32 pp., 9 x 6, b. p. Ae-399, p. 331.
- 71 FLAMACHE, A. L'évolution prochaine des chemins de fer à grande vitesse: Conférence donnée devant la Société Belge des Ingénieurs et des Industriels. Bruxelles, 1902. 19 pp., 9 x 6, pap.
- 91 GALT, WILLIAM. Railway reform; its importance and practicability considered as affecting the nation, the shareholders, and the government. Lond., 1865. 44 + 405 pp., 9 x 6, cl.
- 80 GASKELL, T. P. Railways; their financial position and prospects. Lond., 1874. 81 pp., 9 x 6, b. p.
- 100 GILPIN, WILLIAM. Cosmopolitan railway; compacting and fusing together all the world's continents. San Fran., 1890. 7 + 869 pp., il., maps, 9 x 6, cl.
- 96 HADLEY, A. T. Railroad transportation; its history and its laws. N. Y., 1886. 5 + 269 pp., 8 x 5, cl.
- 74 HARRIS, A. C. Railroads and the people. no place, no date. 22 pp., 8 x 5, pap.
- 73 —Relation of railways to the state. no place, no date. 22 pp., 8 x 5, pap.
- 88 HOLE, JAMES. National railways: An argument for state purchase. Lond., 1898. 16 + 385 pp., tab., 8 x 5, cl.
- 98 HUDSON, J. F. Railways and the Republic. N. Y., 1886. 469 pp., 9 x 6, cl.
- ILES, GEORGE. Railroad problem in the United States. no place, 1888. pp. 289-303, 9 x 6, b. p. no title-page. Ab-455, p. 231.
- 110 INDIA—DIRECTOR OF RAILWAY CONSTRUCTION. Technical section papers; Nos. 68, 70-71, 76-77, 81, 83-88, 90-91, 93-96, 98-103, 105-106, 112. Simla, 1891-1902. 20 v., il., pl., map, 13 x 8, ¼ mor., pap.
68. Well sinking by the pneumatic process, Indus Bridge, Kotri; by W. Chadwick.
70. Tezpur-Balipara Light Ry.; by J. W. de Tivoli.
71. Bridge of the N. W. State Ry. over the Chenab at Sher Shah, and the bridge of the East Coast State Ry. over the Kistna at Bezvada; by F. J. E. Spring.
76. International Railway Congress, 1900. Report by F. R. Upcott.
77. Note on a rail sawing machine; by J. H. Alexander.
81. Note on experiments on gravity catch-sidings and sanded Köpcke-sidings.
83. Expansion joints for permanent way on large bridges.
84. Table of moments of resistance of rails in use on the North Western Ry. and the number required when used as girders; by G. Humfress.
85. Bouré system of key interlocking.
86. Construction of the Godavari Bridge; by F. T. G. Walton.
87. Classification of engines.
88. Account of the experimental investigations of vehicle-resistance; by Franz Hoffmann.
90. Memorandum on certain English points, crossings and signals; by R. E. Pigott and H. J. Stanley.
91. Note on the temporary ferry arrangements over the River Godavari at Rajahmundry.
93. Note on the protection of shallow well foundations from scour; by A. Morse.
- 93a. Note on the design of flood openings; by C. W. Hodson.
94. Rail sections suitable for sharp curves.
95. Signalling and interlocking; by R. E. Pigott.
96. Note on the capacity of lines of railway; by Neville Priestley.
98. Note on grade compensation for curve resistance; by C. W. Hodson.
99. Renewals of wooden sleepers.
100. Note on strain sheets for plate girders; by C. W. Hodson.
101. Ballasting of new railways and the sinkage of ballast in banks.
102. Bridge warnings for low overhead structures.
103. Note on the tilting of flat-footed rails based on observations carried out on the Orleans Ry.; by M. Brière.
105. Training works for a bridge over the Teesta River, Eastern Bengal State Ry.; by G. Moyle.
106. Notes on certain minor details of track-laying on girder bridges, on the timbering of the girders, and on girder expansion and contraction under changes of temperature; by F. J. E. Spring.

Aa—(Continued).

- 107, Observations on the holding power of some fish-plates and its relation to temperature movements and stresses; by W. A. E. Hanby.
- 108, Oil engine trials; by Thomas Alexander and A. W. Thomson.
- 112, Geological report on the Hill Section of the Assam-Bengal Ry.; by H. H. Haydon.
- 109a **INTERNATIONAL ENGINEERING CONGRESS, GLASGOW, 1901.** Proceedings; Sections 1-2. Contents: Section 1, Railways. Section 2, Waterways and maritime works. Note: For Proceedings of Section 6, Mining and metallurgy, see Sd6-8.1, v. 24. Lond., 1902. 2 v., pl., maps, 10 x 6, cl.
- 109 — Report of the proceedings and abstracts of the papers read; with a preface by Robert Caird, Chairman of the Executive Committee. Glasgow, 1902. 406 pp., 9 x 6, cl.
- 107a **INTERNATIONAL RAILWAY CONGRESS, Bulletin; 1900-01 (v. 14-15).** Brussels, 1900-01. 2 v., 10 x 7, pap.
- 108 — General tables referring to the French edition of the "Bulletin" from Jan. 1st, 1887 to Dec. 31st, 1899. Brussels, 1900. various pagings, 10 x 7, pap.
- 105 — Proceedings; 1900. Brussels, 1901-02. 6 v., il., pl., tab., 10 x 7, pap.
- JEANS, J. S.** Railway problems: An inquiry into the economic conditions of railway working in different countries. 1887. (See Ae-800.)
- JULIAN, G. W.** Railway influence in the Land Office. no place, no date. pp. 287-286, 9 x 6, b. p. no title-page. Ab-455, p. 247.
- KIRKMAN, M. M.** Relation of the railroads of the United States to the people and the commercial and financial interests of the country; the elements that determine the rates that shall be charged. Chic., 1885. 54 pp., 9 x 6, b. p. Ae-400, p. 355.
- LANSING, G. L.** Growth and effect of railway consolidation. no place, 1883. pp. 577-589, 9 x 6, b. p. no title-page. Ab-455, p. 217.
- 92 **LEWIS, G. H.** National consolidation of the railways of the United States. N. Y., 1888. 15 + 326 pp., 8 x 5, cl.
- 90 **LYLES, J. H., comp.** Official railway manual of the railroads of North America, showing their financial condition, mileage, cost, earnings, expenses and organization; together with a list of the railroads of the world; 1870-71. N. Y., copy-right 1870. 1 v., 9 x 6, cl.
- 84 **MORGAN, APPLETON.** Railroads and trade-centers. no place, no date. pp. 332-339, 9 x 6, b. p.
- 94 — The people and the railways: A popular discussion of the railway problem in the United States, by way of answer to "The railways and the Republic," by James F. Hudson; and with an examination of the Interstate Commerce law. N. Y., 1888. 245 pp., 8 x 5, cl.
- 104 **MUNDY, F. W.** Earning power of railroads, with tables showing facts as to earnings, capitalization, mileage, etc., of one hundred railroads in the United States and Canada. N. Y., 1902. 190 pp., 8 x 5, cl.
- 78 **NATIONAL CONVENTION OF RAILROAD COMMISSIONERS.** Proceedings of the Convention held at the office of the Interstate Commerce Commission, Washington, D. C.; 1st-13th; 1889-1901. Note: For Proceedings of the Convention, 1878, 78-79, see Ah-55, Annual report, 1879, p. 91. Wash., 1889-1901. 13 v., 9 x 6, cl.
- NEW ENGLAND RAILROAD CLUB.** Proceedings of the meeting; Jan., 1894. (See Sa3-56.1.)
- 78 **NOBLE, J. W.** Mutual obligations of railroad corporations and the public. no place, no date. 69 pp., 8 x 5, pap.
- NORTHWEST RAILWAY CLUB.** Official proceedings; 1895, 1901-02. (See Sa3-140.1.)
- 60 **POOR, H. V., and H. W., pub.** Handbook of investment securities: A supplement to Poor's Manual of railroads; No. 3; 1892. N. Y., 1892. 1 v., 9 x 6, pap.
- 51 — Manual of railroads of the United States; with an appendix containing a full analysis of the debts of the United States, the several states, municipalities, etc.; also statements of street railway and traction companies, industrial corporations, etc.; Nos. 12, 33-35: 1879, 1900-02. Note: Contains account of railroads of Canada, Mexico and Central America. N. Y., 1879-1902. 4 v., 9 x 6, cl.
- RAILWAY BENEVOLENT INSTITUTION.** Proceedings of the meeting called for the purpose of organizing an institution for the relief of necessitous children and widows of railway salaried officers, Mar., 1868. Lond., 1868. 15 pp., 8 x 5, b. p. Ae-307, p. 67.
- Report of the proceedings at the annual dinner, special general meeting and annual general meeting; 1858-83. Note: Includes half-yearly reports. (See Sd6-33.1.)
- Rules and regulations, June, 1888. Lond., 1888. 20 pp., 8 x 5, b. p. Ae-307, p. 108.
- RAILWAY EMPLOYEES' MUTUAL BENEFIT ASSOCIATION OF THE WEST.** Proceedings, by-laws and articles of association, annual convention; 1878. Chic. 1878. 1 v., 6 x 4, b. p. Af-304, p. 327.

RAILROADS—GENERAL.

Aa—(Continued).

- RICE, I. L.** Remedy for railway abuses. no place, no date. pp. 134-148, 9 x 6, b. p. Af-304, p. 452.
- ROADMASTERS' ASSOCIATION OF AMERICA.** Proceedings of the annual convention; 1885-86, '91, 1900-01. (See Sa3-40.1.)
- ST. LOUIS RAILWAY CLUB.** Official proceedings; 1901-02. (See Sa3-141.1.)
85. **STERNE, SIMON.** Railway reorganization. no place, no date. pp. 38-53, 9 x 6, b. p. no title-page.
- 95 **STICKNEY, A. B.** The railway problem. St. Paul, 1891. 7 + 249 pp., il., 8 x 5, cl.
- 89 **SWANN, JOHN.** An investor's notes on American railroads. N. Y., 1886. 5 + 172 pp., 8 x 5, cl.
- UNITED KINGDOM RAILWAY OFFICERS' AND SERVANTS' ASSOCIATION.** List of subscribers. Note: Also contains list of subscribers to Railway Orphan Fund. Lond., 1882. 64 pp., 9 x 5, b. p. Ae-307, p. 127.
- Report, balance sheet, accounts, &c.; 1882. Note: Contains report of the Railway Orphan Fund. Lond., 1883. 1 v., 9 x 6, b. p. Ae-307, p. 197.
- Rules. Note: Contains rules for the Railway Provident Society, Railway Officers' and Servants' Fund, and Railway Orphan Asylum Fund. Lond., no date. 56 pp., 8 x 5, b. p. Ae-307, p. 25.
- UNITED STATES—BUREAU OF STATISTICS.** Statistics relating to railroads; 1878-79, '88, 1900-01. (See Qc-37.)
- UNITED STATES—INTERSTATE COMMERCE COMMISSION.** Annual report on the statistics of railways in the United States; 1st-13th; for the year ending June 30th, 1888-1900. (See Ai-86.)
- 103 **UNIVERSAL DIRECTORY OF RAILWAY OFFICIALS; 1901.** Lond., 1901. 1 v., 8 x 6, cl.
- VEREIN DEUTSCHER EISENBAHN-VERWALTUNGEN.** Organ für die Fortschritte des Eisenbahnwesens in technischer Beziehung; 22d year; 1867. (See Sd5-2.2.)
- WRIGHT, J. A.** Control of railways by the general government. Phil., 1877. 35 pp., 9 x 6, b. p. Ae-398, p. 269.

RAILROADS—LOCATION.

Ab

- ARGENTINE REPUBLIC.** Railway map of the Argentine Republic. G. E. Church. 1897. (See Qf-545.)
- ASHTABULA & NEW LISBON R. R.** Report on the economical geology of the route of the A. & N. L. R. R., by J. S. Newberry. 1856. (See Ag-283, Annual report, 1856, p. 13.)
- 408 **BALTIMORE & OHIO R. R.** Address and report of a select committee; also, a letter from the President, recommending measures for the immediate prosecution of the road to the Ohio River. Balt., 1848. 42 pp., 9 x 6, pap.
- Address of (Louis) McLane, President, to the Stockholders at their meeting on the 5th of April, 1847, respecting a proposed subscription to the capital of the Pittsburgh & Connellsville R. R. Co. 1847. (See Ae-62.)
- 192 —Communication to the Mayor and City Council of Baltimore, presented Feb. 7th, 1831. Note: Relates to the location of the railroad in the City of Baltimore, and contains report of J. Knight, Chief Engineer, regarding the same. Balt., 1831. 14 pp., map, 9 x 6, pap.
- 390 —Correspondence between the Chesapeake & Ohio Canal Co. and the B. & O. R. R. Co. in relation to the disputes between those companies concerning the right of way for their respective works along the Potomac River. Balt., 1830. 80 pp., 9 x 6, pap.
- 354 —Report and documents submitted by the Committee appointed to confer with the authorities of the City of Wheeling, respecting the late law of Virginia, granting the right of way to the company through that State, passed 6th Mar., 1847. Note: Relates to the location of the road. Balt., 1847. 67 pp., maps, 9 x 6, pap.
- 255 —Report of the Consulting Engineers on the report and estimates of B. H. Latrobe, Chief Engineer, concerning the routes for the extension of the B. & O. R. R. westward. Jonathan Knight and John Childe. no place, 1848. 12 pp., 9 x 6, pap.
- Report of the Directors to the Legislature of Maryland. Note: Special report made in compliance with an order of the House of Delegates showing progress made on the railroad, and giving an account of the controversy with the Chesapeake & Ohio Canal Co. 1831. (See Ag-340.)
- 461 —Report upon the surveys for the extension of the B. & O. R. R. from its present termination near Harper's Ferry, on the Potomac, to Wheeling and Pittsburg on the Ohio River. Balt., 1838. 138 + 188 pp., map, tab., 9 x 6, pap.

Ab—(Continued).

- 387 —Western Maryland R. R. and His Honor the Mayor of Baltimore *vs.* the B. & O. R. R. Expositor, pseud. Balt., 1883. 14 pp., 9 x 6, pap.
- 197 **BALTIMORE & SUSQUEHANNA R. R.** Address to the Mayor and City Council of Baltimore on the trade of the Susquehanna, and the railroad to that river. Balt., 1890. 24 pp., 9 x 6, pap.
- BALTIMORE, CINCINNATI & WESTERN CENTRAL RY.** New trunk line; advantages of the route; cost of construction; local resources; connections; earning capacity; engineers' report; value of minerals and timber; list of stations; condition of other roads; financial plan; charters, etc. Phil., 1880. 57 pp., map, 9 x 6, b. p. Af-285, p. 689.
- 276 —Prospectus. Phil., 1880. 57 pp., map, 10 x 6, pap.
- BOSTON & LOWELL R. R.** Plan & profile of the B. & L. R. R. 1836. (See Qf-569.)
- BOSTON & NORTHWESTERN R. R.** Cheap coal; or, The B. & N., Massachusetts Central, and Boston & Poughkeepsie Railroads; their relations to Massachusetts, the coal fields of Pennsylvania, and the commerce of Boston. H. F. Keith. Note: An argument to show the wisdom of constructing the above railroads. Bost., 1877. 21 pp., 9 x 6; b. p. Mb-54, p. 273.
- 424 **BOSTON & OSWEGO R. R.** Proceedings of the B. & O. R. R. Convention held in Oswego, June 14th and 15th, 1871. Oswego, 1871. 62 pp., 8 x 5, pap.
- BOSTON & POUGHKEEPSIE R. R.** Cheap coal; or, The Boston & Northwestern, Massachusetts Central, and B. & P. Railroads; their relations to Massachusetts, the coal fields of Pennsylvania, and the commerce of Boston. H. F. Keith. Note: An argument to show the wisdom of constructing the above railroads. Bost., 1877. 21 pp., 9 x 6, b. p. Mb-54, p. 273.
- BOSTON & WORCESTER R. R.** Report, with a plan and profile of the location of the railroad. J. M. Fessenden. 1832. (See Ag-34, 1st annual report, p. 29.)
- BUFFALO, SYRACUSE & ALBANY R. R.** Evidence and arguments given before the Committee, Mar. 19th, 20th, 25th, 1879, favoring the introduction, without expense to the State, of an improved system of towage upon the canals, by a railway to be constructed subsidiary thereto. New York State-Assembly Committee on Canals. 1879. (See Cfh-82.)
- CANADA.** New commercial map of the United States and Canada, showing all the railroads, counties and principal towns up to date; constructed fr. the latest government and railroad surveys. 1883. Rand, McNally & Co. (See Qf-560.)
- New guide map of the United States & Canada, with railroads, counties, etc. G. W. Colton. 1861. (See Qf-571.)
- CANADIAN PACIFIC RY.** Official memorandum respecting the position and prospects of the railway. Montreal, 1882. 16 pp., map, 9 x 6, b. p. Af-306, p. 567.
- 429 —Reports relating to the work remaining to be done by the company, and to the character of the country on the western section of the line; by order of the Board. no place, 1884. 16 pp., 9 x 6, pap. no title-page.
- 332 —Tables and diagrams for spiral curves used on the Pacific Division. Trail, B. C., 1899. 22 pp., 5 x 7, cl.
- 373 **CENTRAL AMERICA.** Three Americas Railway: An international and intercontinental enterprise outlined in numerous formal disquisitions and five elaborate essays. H. R. Helper and others. St. Louis, 1881. 473 pp., 8 x 5, cl.
- CHARLESTON, CINCINNATI & CHICAGO R. R.** Prospectus. N. Y., 1888. 15 pp. maps, 9 x 6, b. p. Af-301, p. 87.
- 208 **CHESTER & CHICAGO BRANCH JUNCTION R. R.** Statement: The C. & C. B. J. R. R. Co. in connection with the development of the Chester coal fields, in Southern Illinois. John Hogan and others. N. Y., 1867. 12 pp., 9 x 6, pap.
- 267 **CHICAGO & CANADA SOUTHERN RY.** Prospectus, and other documents. N. Y., 1872. 19 pp., map, 9 x 6, pap.
- 456 **CHICAGO & PADUCAH R. R.** Prospectus: Its present condition, popular advantages, and future prospects; together with the financial resources of the company, and the security of the first mortgage bonds. N. Y., 1872. 37 pp., map, 9 x 6, b. p.
- CHICAGO & WESTERN INDIANA R. R.** In the Supreme Court of Illinois-Northern Grand Division, March Term, 1881; the Lake Shore & Michigan Southern, and the Chicago, Rock Island & Pacific R. R. Companies, Appellants, *vs.* the C. & W. I. R. R. Co., Appellee; appeal from the County Court of Cook Co.; Argument for Appellee. Henry Crawford. Note: Relates to the crossing of the tracks of the C. R. I. & P. and the L. S. & M. S. Ry. Companies by the C. & W. I. R. R. Co. Chic., 1881. 88 pp., 10 x 8, b. p. Af-302, p. 67.
- CHICAGO & WESTERN INDIANA RY.** Supreme Court of Illinois, Southern Grand Division; Eugene M. Dunbar, *et al.*, *vs.* the C. & W. I. Ry. Co., *et al.*; agreed case from Superior Court of Cook Co.; Argument. Henry Crawford. Note: Relates to location of the railroad in Chicago. Chic., 1880. 76 pp., 9 x 6, b. p. Zj-195, p. 651.

Ab—(Continued).

- 340 **CHICAGO, DANVILLE & VINCENNES R. R.** Prospectus issued to advertise the first mortgage bonds of the company. N. Y., 1870. 27 pp., 9 x 6, pap.
- CHOCTAW, OKLAHOMA & GULF R. R.** Standard general instructions to resident engineers. 1901. (See Ac-140.)
- 430 **CINCINNATI & MACKINAW R. R.** Report and exhibit and also a report of the Chief Engineer, 1858. Dayton, Ohio, 1858. 57 + 2 pp., tab., 9 x 6, pap.
- 108 **CINCINNATI SOUTHERN RY.** Records, correspondence, etc., in matter of terminal facilities in Cincinnati. Cin., 1887. 78 pp., pl., 9 x 6, pap.
- 18 — Surveys for the C. S. Ry.: Preliminary report of the Chief Engineer. W. A. Gunn. no place, 1873. 66 pp., maps, 9 x 6, cl.
- COSMOPOLITAN RY.** Compacting and fusing together all the world's continents. William Gilpin. 1890. (See Aa-100.)
- DELAWARE.** Maryland & Delaware with parts of Pennsylvania & Virginia, showing the railroads. F. Lucas, Jr. 1852. (See Qf-551.)
- DELAWARE, LEHIGH, SCHUYLKILL & SUSQUEHANNA R. R.** Preliminary report upon the location of the D., L., S. & S. R. R., Aug., 1852; by Robert H. Sayre, Chief Engineer. (See Ag-221, Annual report, 1855-63, p. 1.)
- 177 **DUNKIRK, WARREN & PITTSBURGH RY.** Statement of its present condition, country through which it passes, business prospects, &c., May, 1870. N. Y., 1870. 28 pp., 9 x 6, pap.
- 178 **EDINBURGH, LEITH & NEWHAVEN RY.** Considerations regarding the E., L. & N. Ry., addressed to the Commissioners of Improvements, the inhabitants of the eastern divisions of Prince's Street and of the streets under which the tunnel is proposed to be carried, and to the shareholders of the railway company. Patrick Neill. Edin., 1837. 40 + 3 pp., 9 x 6, pap.
- 179 **ELYSVILLE & CANTON R. R.** Report on the survey of the proposed E. & C. R. R. Thomas Rowles. Balt., 1853. 8 pp., 9 x 6, pap.
- 427 **ERIE & NEW ENGLAND R. R.** Connecting the West and East via the Hudson Highland Suspension Bridge: General remarks and estimate. N. Y., 1868. 14 pp., 9 x 6, pap.
- GALVESTON, HARRISBURG & SAN ANTONIO RY.** Brief statement concerning the G., H. & S. A. Ry. Co., with a list of its Directors and Officers, Trustees of bonds and mortgage, and Report of Treasurer. Bost., 1872. 53 pp., 9 x 6, b. p. Af-295, p. 157.

GENERAL.

- COLE, W. H.** Notes on permanent-way material, platelaying, and points and crossings. 1890. (See Ac-122.)
- 308 **CORDEIRO, C. X.** Chemins de fer: Voies et travaux: Du surhaussement du rail extérieur des courbes: Mémoire. Lisbonne, 1900. 8 pp., 10 x 8, pap.
- 304 — Chemins de fer: Voies et travaux: Étude sur les communications de voies et sur les branchements. Lisbonne, 1900. 22 pp., 10 x 8, pap.
- 11 **COTTON, C. P.** Manual of railway engineering for the field and the office. ed. 2, rev. and enl. Dublin, 1874. 181 pp., il., 5 pl., 8 x 5, cl.
- 460 **DUFOUR, ALBERT.** Tracé d'un chemin de fer. (Encyclopédie Scientifique des Aide-Mémoire.) Paris, 1897(?) 212 pp., il., 8 x 5, pap.
- 458 **FOX, W. G.** Transition curves: A field book for engineers, containing rules and tables for laying out transition curves. N. Y., 1893. 80 pp., 6 x 4, bds.
- HODSON, C. W.** Note on grade compensation for curve resistance. 1902. (See Aa-110, No. 98.)
- 457 **KELLOGG, N. B.** Transition curve or curve of adjustment by the method of rectangular co-ordinates and by deflection angles (polar co-ordinates), based on the French of M. Nordling, with additional problems. San Fran., 1899. 2 + 60 pp., 7 x 4, cl.
- 364 **NAGLE, J. C.** Field manual for railroad engineers. ed. 2, rev. N. Y., 1899. 15 + 408 pp., il., tab., 7 x 4, mor.
- 352 **PHILBRICK, P. H.** Field manual for engineers. N. Y., 1901. 15 + 388 pp., il., tab., 7 x 4, skiv.
- 402a **TALBOT, A. N.** Railway transition spiral. ed. 3, rev. N. Y., 1901. 6 + 110 pp., 7 x 4, ro.
- 170 — Uniform chord length method for the railway transition spiral. no place, 1900. 6 pp., tab., 9 x 6, pap.
- TRATMAN, E. E. R.** Gage, grades and curves. 1901. (See Ad-200a, p. 351.)
- 418a **TRAUTWINE, J. C.** Field practice of laying out circular curves for railroads. ed. 12. N. Y., 1886. 10 + 192 pp., il., tab., 7 x 5, mor.
- WEALE, JOHN, pub.** Rudimentary and practical instructions on the science of railway construction for the use of beginners and those who have commenced practice. 1861. (See Ac-163.)
- WEBB, W. L.** Railroad surveys. 1900. (See Ac-143, p. 1.)

Ab—(Continued).

- GRAND RAPIDS & INDIANA R. R.** First mortgage bonds and other documents. Note: Contains description of the route through which the road is to pass. 1870. (See Af-357.)
- 271a **GREAT BRITAIN.** Analysis of railways; consisting of a series of reports on the twelve hundred miles of projected railways in England and Wales, now before Parliament. Francis Whishaw. Lond., 1837. 15 + 296 pp., tab., 9 x 6, cl.
- 455 **HANNIBAL & SOUTHWESTERN RY.** Report of a survey and estimate of the H. & S. Ry. J. T. K. Hayward. Hannibal, Mo., 1882. 14 pp., 9 x 6, b. p.
- HONDURAS INTEROCEANIC RY.** List of books and of articles in periodicals relating to interoceanic canal and railway routes (Nicaragua, Panama, Darien, and the Valley of the Atrato, Tehuantepec and Honduras, Suez Canal); by Hugh A. Morrison, Jr., with an apx.: Bibliography of United States public documents. U. S.-Library of Congress. 1900. (See Cfb-49.)
- HOUSTON EAST & WEST TEXAS RY.** Charter and by-laws of the company, with a description of the counties immediately upon and adjacent to its line. 1878. (See Af-354.)
- INDIANA & ILLINOIS CENTRAL RY.** Statement respecting the I. & I. C. Ry. Co.-building an east and west air line of 152 miles between Indianapolis, Ind., and Decatur, Ill., showing the basis and security of its first mortgage 7 per cent. sinking fund gold bonds. N. Y., 1872. 80 pp., 9 x 6, b. p. Af-307, p. 219.
- 456 **INDIANA & ILLINOIS SOUTHERN R. R.** Preliminary report of the Consulting Engineer on the I. & I. S. R. R., its present condition, proposed improvements, prospective traffic, estimated earnings, etc. I. B. Riley. Newark, Ohio, 1883. 8 pp., 9 x 6, b. p.
- 185 **INTERCONTINENTAL RY.** Tr. from the Spanish by R. F. Letts. Ernesto de La Combe. no place, no date. 8 pp., 9 x 6, pap. no title-page.
- 172 **JUNCTION R. R.** Statement of the President relative to the new securities of the company and documents in that behalf. Cin., 1864. 32 pp., map, 9 x 6, pap.
- KENTUCKY.** Geological map of Kentucky exhibiting the locations of the counties, cities, villages, post-offices, railway stations, etc., the railways, common roads, etc. E. Mendenhall, pub. 1865. (See Qf-572.)
- 176 **LAKE SUPERIOR & MISSISSIPPI R. R.** Connecting the Mississippi and Minnesota Rivers and the railroad system of the States of Minnesota and California, with Lake Superior. St. Paul, 1866. 56 pp., map, 9 x 6, pap.
- 175 **LEBANON SPRINGS R. R.** Completing the most direct route from New York to Montreal and the Canadas, by way of the Harlem R. R., Lebanon Springs, Bennington, Rutland and Burlington. New Lebanon, 1866. 39 pp., 9 x 6, pap.
- Estimate for the construction of the L. S. R. R. from Chatham Four Corners to North Bennington, Vt., and Eagle Bridge, Rensselaer County, N.Y. C. S. Cross. 1864. (See Ac-123.)
- 174 — Prospectus. N. Y., 1852. 17 pp., map, 9 x 6, pap.
- LOUISIANA.** Indexed county map of Louisiana, with a new and original compilation and index, designating all post office towns and railroad stations, an alphabetically arranged list of all railroads in the State, also, of the counties, lakes, rivers, etc., etc. Rand, McNally & Co. no date. (See Qf-597.)
- 423 **LOUISVILLE, CINCINNATI & CHARLESTON R. R.** Proceedings of the Convention in relation to the proposed L., C. & C. R. R., assembled at Knoxville, Tenn., July 4th, 1836. Knoxville, 1836. 48 pp., 9 x 6, pap.
- LOUISVILLE, ST. LOUIS & TEXAS RY.** Prospectus. no place, 1889. 19 pp., maps, 9 x 6, b. p. Aa-85, p. 249.
- MARYLAND.** Maryland & Delaware with parts of Pennsylvania & Virginia, showing the railroads. F. Lucas, Jr. 1852. (See Qf-551.)
- MARYLAND & DELAWARE R. R.** Prospectus. no place, no date. 20 pp., 9 x 6, b. p. Aa-85, p. 229.
- MASSACHUSETTS.** Lecture on railroads delivered Jan. 12th, 1829, before the Massachusetts Charitable Mechanic Association. William Jackson. ed. 3. Bost., 1829. 36 pp., tab., 9 x 6, b. p. Aa-81, p. 519.
- MASSACHUSETTS CENTRAL R. R.** Cheap coal; or, The Boston & Northwestern, M. C., and Boston & Foughkeepsie Railroads; their relations to Massachusetts, the coal fields of Pennsylvania, and the commerce of Boston. H. F. Keith. Note: An argument to show the wisdom of constructing the above railroads. Bost., 1877. 21 pp., 9 x 6, b. p. Mb-54, p. 273.
- 301 **MEXICAN CENTRAL RY.** Instructions to engineers on preliminary surveys and location; to division engineers on construction, and to track engineers; specifications of rubble masonry and graduation. City of Mexico, 1900. 26 pp., 7 x 4, cl.
- 373 **MEXICO.** Three Americas Railway: An international and intercontinental enterprise outlined in numerous formal disquisitions and five elaborate essays. H. R. Helper and others. St. Louis, 1881. 473 pp., 8 x 5, cl.

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- 298 **MEXICO NATIONAL RY.** Prospectus, Nov., 1872. Phil., 1872. 189 pp., map, 9 x 6, pap.
- 355 **MISSISSIPPI VALLEY R. R.** Official proceedings of the M. V. R. R. Convention, held at the Varieties' Theatre, in St. Louis, Monday and Tuesday, the 15th and 16th, November, 1852, together with the memorial to Congress, ordered by said Convention; also, the official proceedings of the North Missouri R. R. Convention held at the Court House, in St. Charles, Wednesday, the 10th, November, 1852, with their memorial to Congress asking for a grant of land. St. Louis, 1852. 63 pp., 9 x 6, pap.
- 187 **MISSOURI.** Report of the Civil Engineer, on a projected railroad from Louisiana to Columbia, in this state (Missouri). W. B. Guion. no place, 1896. 7 pp., 10 x 7, pap.
- 208 **NEW LONDON, WILLIMANTIC & SPRINGFIELD R. R.** Engineer's report and charter. New London, 1847. 36 pp., 9 x 6, pap.
- 209 **NEW YORK & ALBANY R. R.** Report on the statistical and other facts connected with the plan of constructing a railroad between the Cities of New York, Albany and Troy. B. Knower and others. no place, 1832. 40 pp., 9 x 6, pap. no title-page.
- NEW YORK & BOSTON R. R.** Statement of facts in relation to the grant of a bridge at Middletown, to the N. Y. & B. R. R. Co.; General Assembly, May Session, 1846. 1847. (See Fd-65.)
- NEW YORK & BOSTON RAPID TRANSIT CO.** Prospectus. Bost., 1887. 14 pp., 9 x 6, b. p. Aa-85, p. 133.
—Prospectus for a direct railway line between New York and Boston. Bost., 1886. 24 pp., 9 x 6, b. p. Aa-79, p. 187.
- 277 **NEW YORK & OSWEGO MIDLAND R. R.** Address of committee to citizens of New York. Jan. 1st, 1869. no place, 1869. 15 pp., 9 x 6, pap.
- 165 **NEW YORK, HOUSATONIC & NORTHERN R. R.** Prospectus, Apr., 1874. no place, 1874. 14 pp., 9 x 6, pap.
- 166 **NEW YORK, PITTSBURGH & CHICAGO RY.** Prospectus; also a copy of its first mortgage. ed. 2. N. Y., 1881. 36 pp., map, facsim., 9 x 6, pap.
- NICARAGUA.** Memoria del Ministerio de Fomento; 1885-86. Note: Contains reports on the proposed location of the Central Division of the National Ry., and on the proposed railway from San Jorge to San Juan del Sur (See Ai-89.)
- NORFOLK, ALBEMARLE & ATLANTIC R. R.** Prospectus, containing estimates of cost of improvements, gross and net earnings, report of Wm. L. Elseffer, etc. N. Y., 1890. 18 pp., map, 9 x 6, b. p. Aa-79, p. 109.
- 355 **NORTH MISSOURI R. R.** Official proceedings of the Mississippi Valley R. R. Convention held at the Varieties' Theatre, in St. Louis, Monday and Tuesday, the 15th and 16th, November, 1852, together with the memorial to Congress, ordered by said Convention; also, the official proceedings of the N. M. R. R. Convention held at the Court House, in St. Charles, Wednesday, the 10th, November, 1852, with their memorial to Congress asking for a grant of land. St. Louis, 1852. 63 pp., 9 x 6, pap.
- 220 **NORTHERN PACIFIC R. R.** Führer durch die Ländereien der Nördlichen Pacific Eisenbahn in Minnesota. N. Y., 1872. 47 pp., il., map, 9 x 6, pap.
—Report in favor of aid to the northern route. U. S.—Select Committee on Pacific Railroad. 1860. (See Af-463, p. 41.)
- 299 —Statement of its resources and merits, as presented to the Pacific Railroad Committee of Congress, H. R., Mar., 1868. J. G. Smith and others. Wash., 1868. 24 pp., tab., 9 x 6, pap.
- 169 **NORTHWESTERN VIRGINIA R. R.** Address on the Parkersburg R. R. (N. W. V. R. R.), delivered at the new assembly rooms, Hanover Street, June 28th, 1852. Thomas Swann. Note: Address shows advantages of route selected, etc. Balt., 1852. 29 pp., 9 x 6, pap.
- 187 **OREGON PACIFIC R. R.** Prospectus. N. Y., 1880. 12 pp., 9 x 6, pap.
- 459 **ORENBURG R. R.** Profile of O. R. R. no place, no date. pl., 13 x 414, bds.
- PANAMA R. R.** Communication of the Board of Directors to the Stockholders; together with the report of the Chief Engineer to the Directors, and an appendix containing tables of the grades, tangents, and curves of the P. R. R., and observations upon the levels of the Atlantic and Pacific Oceans. 1855. (See Ag-460.)
- 168 **PENINSULA R. R. OF MICHIGAN.** Exhibit of the route and resources of the railroad, comprised in report of Special Committee, report of Engineer, and organic and special laws. Chic., 1863. 48 pp., map, 9 x 6, pap.
- PENNSYLVANIA.** New county map of the State of Pennsylvania and adjoining states showing the route of the Central & other railroads, etc.; reduced fr. the large state map by I. W. Otley. R. L. Barnes, pub. 1853. (See Qf-579.)

Ab—(Continued).

- Railroad map of Pennsylvania. Department of Internal Affairs, pub. 1901. (See Qf-541.)
- PEOPLE'S PACIFIC R. R.** Charter, organization, address of the President, Josiah Perham, with the by-laws of the Board of Commissioners. 1860. (See Af-394.)
- 435 **PORT HURON & NORTHWESTERN RY.** Its organization, location, financial condition, business prospects, etc. no place, 1879. 7 pp., 8 x 6, pap.
- ST. CROIX & LAKE SUPERIOR R. R.** Acts of the Legislature of Wisconsin, and of the Congress of the United States, relative to the St. C. & L. S. R. R. Co., with the statement of the President and Directors, and of the Chief engineer of said company. Note: Contains report on location. 1866. (See Af-456.)
- 456 **ST. LOUIS, KANSAS CITY & COLORADO R. R.** Prospectus. N. Y., no date. 23 pp., 9 x 6, b. p.
- 456 **ST. LOUIS—KANSAS CITY SHORT LINE RY.** Statement, charter, franchises, route, etc. Columbia, Mo., 1886. 43 pp., maps, 9 x 6, b. p.
- SOCIETA ITALIANA PER LE STRADE FERRATE DEL MEDITERRANEO.** Relazione sugli studi e lavori eseguiti dal 1885 al 1897. 1900. (See Ac-151.)
- 373 **SOUTH AMERICA.** Three Americas Railway: An international and intercontinental enterprise outlined in numerous formal disquisitions and five elaborate essays. H. R. Helper and others. St. Louis, 1881. 473 pp., 8 x 5, cl.
- SOUTHWESTERN R. R.** Report on the preliminary surveys and estimates. F. P. Holland. 1899. (See Ag-311, p. 3.)
- TEHUANTEPEC SHIP RY.** List of books and of articles in periodicals relating to interoceanic canal and railway routes (Nicaragua, Panama, Darien, and the Valley of the Atrato, Tehuantepec and Honduras, Suez Canal); by Hugh A. Morrison, Jr., with an apx.: Bibliography of United States public documents. U. S. Library of Congress. 1900. (See Cfb-49.)
- 217 —Proposed Atlantic and Pacific ship railway. no place, 1884. 10 pp., 9 x 6, pap.
- 422 —Review of Captain Phelps' pamphlet entitled "Transportation of ships on railways." J. B. Eads. no place, no date. 31 pp., 9 x 6, pap.
- 235 **TENNESSEE & PACIFIC R. R.** Experimental survey of the T. & P. R. R. from Nashville to Knoxville: Reports of the Engineer and Geologist; with an appendix. Nashville, 1867. 94 pp., 8 x 5, pap.
- TEXAS.** Railroad and county map of Texas. Railroad Commission. 1901. (See Qf-517.)
- 149 **TEXAS & PACIFIC RY.** Notes on Texas and the T. & P. Ry.; compiled from official and other authentic data. Phil., 1873. 48 pp., map, tab., 9 x 6, pap.
- 195 **TOLEDO, LOGANSPOUT & NORTHERN INDIANA R. R.** Statement showing the actual condition, estimated income, and prospective business of the T., L. & N. I. R. R. N. Y., 1866. 21 pp., map, 9 x 6, pap.
- TONAWANDA R. R.** Report upon the company, exhibiting its present situation and future prospects; by a committee. 1887. (See Ac-222.)
- 186 **UNION PACIFIC R. R.** Pacific railroad: A review of the reports of the committees of the Senate and House of Representatives of the last session, with remarks. New Orleans, 1850. 16 pp., 9 x 8, pap.
- 348 —Pacific railroad. (Merchants' Magazine Extra.) no place, 1860. 14 pp., 9 x 6, pap.
- Report of the Committee to whom was referred the memorial of Thomas Allen and others, praying for the location and construction of a national railroad and electric telegraph from the Mississippi River to the Pacific Ocean; also, various and numerous resolutions, memorials and petitions in favor of the plan of Mr. Asa Whitney of New York, for the construction of such a road. U. S.-House Committee on Roads and Canals. 1850. (See Ai-74.)
- 387 **UNION PACIFIC RY., EASTERN DIVISION.** Notes on the geology of the survey for the extension of the U. P. Ry., E. D., from the Smoky Hill River, Kans., to the Rio Grande. J. L. Leconte. Phil., 1868. 76 pp., map, 9 x 6, pap.
- 262 **UNITED STATES.** Congressional grants of land in aid of railways. J. B. Sanborn. (Bulletin of the University of Wisconsin, Economics Ser.) Madison, 1899. 130 pp., 10 x 6, pap.
- New commercial map of the United States and Canada, showing all the railroads, counties and principal towns up to date; constructed fr. the latest government and railroad surveys, 1863. Rand, McNally & Co. (See Qf-560.)
- New guide map of the United States and Canada, with railroads, counties, etc. G. W. Colton. 1861. (See Qf-571.)
- 373 —Three Americas Railway: An international and intercontinental enterprise outlined in numerous formal disquisitions and five elaborate essays. H. R. Helper and others. St. Louis, 1881. 473 pp., 8 x 5, cl.
- 421 **UTICA, ITHACA & ELMIRA R. R.** And its connections. N. Y., 1872. 49 pp., 9 x 6, pap.

Ab—(Continued).

- WASHINGTON & OHIO R. R.** A glance at the country through which it passes, between Washington, D. C., and the Ohio River, a distance of 325 miles. Phil., 1873. 100 pp., 9 x 6, b. p. Af-304, p. 597.
- 207 **WESTERN MARYLAND R. R.** And His Honor the Mayor of Baltimore, vs. the Baltimore & Ohio R. R. Expositor, pseud. Balt., 1863. 14 pp., 9 x 6, pap.

RAILROADS—CONSTRUCTION.**Ac**

- ATLANTIC & LAKE ERIE RY.** Report presented to the Stockholders at their annual meeting, Feb., 1874. (See Ag-468.)
- CANADIAN PACIFIC RY.** Annual statement respecting the C. P. Ry.; 1884. Canada—Minister of Railways. (See Ai-70.)
- CHEMIN DE FER DE QUEBEC ET LAC ST. JEAN.** Rapport sur la 51ème section de dix milles du Chemin de Fer Quebec et Lac St. Jean. C. P. F. Ballaigre. no place, 1886. 6 pp., 9 x 6, b. p. no title-page. Zb-85, p. 83.
- 221 **CHICAGO, ILL.** Report of the Department of Track Elevation; 1900. no place, 1900. 1 v., il., pl., 9 x 6, pap.
- 119 **CHICAGO, SANTA FE & CALIFORNIA RY.** Specifications for construction of road bed. no place, no date. unpag., 14 x 9, pap. no title-page.
- 140 **CHOCTAW, OKLAHOMA & GULF R. R.** Standard general instructions to resident engineers. no place, 1901. 101 pp., il., 7 pl., 18 tab., 7 x 5, cl.
- CINCINNATI SOUTHERN RY.** Petitions in behalf of the passage of the "Wright" Amendatory Bill to the C. S. Ry. Act, Mar. 26th, 1873, and remonstrance against any interference with the several bills authorizing the construction of the road, Jan. 29d, 1874. (See Af-476.)
- 125 **CLEVELAND, OHIO.** Abolishment of grade crossings: Report of Special Committee of the Chamber of Commerce, Dec. 18th, 1900. Cleveland, 1900. 23 pp., 9 x 6, pap.
- 6 **DUTCH EAST INDIA.** Les chemins de fer aux colonies et dans les pays neufs: Fascicule concernant les chemins de fer et les tramways à vapeur aux Indes Orientales Néerlandaises. J. W. Post. Bruxelles, 1900. 263 pp., il., pl., tab., 9 x 6, cl.
- EDINBURGH, LEITH & NEWHAVEN RY.** Considerations regarding the E., L. & N. Ry., addressed to the Commissioners of Improvements, the inhabitants of the eastern divisions of Prince's Street and of the streets under which the tunnel is proposed to be carried, and to the shareholders of the railway company. Patrick Neill. 1837. (See Ab-178.)

GENERAL.

- 142a **BARRY, SIR J. W.** Railway appliances: A description of details of railway construction subsequent to the completion of the earthworks and structures; including a short notice of rolling stock. N. Y., 1876. 18 + 299 pp., il., 7 x 5, cl.
- BARRY, SIR J. W., and F. J. BRAMWELL.** Railways and locomotives: Lectures delivered at the School of Military Engineering at Chatham in 1877. 1882. (See Ad-274.)
- 223 **BURT, JOHN.** Description of a scheme and plan for constructing a double-track railway tunnel under Detroit River. Detroit, 1877. 6 pp., 9 x 6, pap.
- 122 **COLE, W. H.** Notes on permanent-way material, platelaying, and points and crossings. Lond., 1890. 7 + 99 pp., 18 pl., tab., 8 x 5, cl.
- CORDEIRO, C. X.** Chemins de fer: Voies et travaux: Du surhaussement du rail extérieur des courbes: Mémoire. 1900. (See Ab-308.)
- COTTON, C. P.** Manual of railway engineering for the field and the office. 1874. (See Ab-11.)
- 7a **DAVIS, J. W.** Formulæ for the calculation of railroad excavation and embankment, and for finding average haul. N. Y., 1876. 88 pp., il., 9 x 6, cl.
- DU LIN, CH., and A. FOUSSET.** État actuel des chemins de fer; avenir et complément du réseau; construction et exploitation économiques des nouvelles lignes complémentaires. 1874. (See Ae-415.)
- EISENBAHNBAU, AUSGENOMMEN VORARBEITEN, UNTERBAU UND TUNNELBAU.** 1897. (See V-120, v. 5.)
- EVANS, A. W. W.** Abt system of railway for steep inclines. (Transactions Am. Soc. C. E., Mar., 1886.) N. Y., 1886. pp. 147-180, pl., 9 x 6, b. p. Aa-84, p. 141.
- GILPIN, WILLIAM.** Cosmopolitan railway; compacting and fusing together all the world's continents. 1890. (See Aa-100.)
- 162 **HASLEY, JAMES.** Railway masonry and bridge foundations. Chic., 1888. 64 pp., il., 7 x 4, cl.
- 111 **HOW, FRANCIS.** A few words regarding comparative cost of railroad construction, 1898-1899-1900-1901. N. Y., 1901. unpag., 10 x 6, pap.

Ac—(Continued).

GENERAL—(Continued).

- 1510a HUDSON, J. R. Tables for calculating the cubic contents of excavations and embankments. ed. 3. N. Y., 1902. 181 pp., il., 9 x 6, cl.
- 196 HUNTINGTON, W. S. Road-master's assistant and section-master's guide: A manual of reference for all having to do with the permanent way of American railroads; rev. and enl. by Charles Latimer. N. Y., 1878. 15 + 286 pp., il., 7 x 5, ro.
- INDIA—DIRECTOR OF RAILWAY CONSTRUCTION. Ballasting of new railways and the sinking of ballast in banks. 1902. (See Aa-110, No. 101.)
- 15a JERVIS, J. B. Treatise on the construction and management of railways; designed to afford useful knowledge in a popular style to the holders of this class of property. Phil., 1866. 841 pp., 7 x 5, cl.
- MEYER, GUSTAV. Bauleitung (eisenbahn). 1898. (See V-120, v. 1, Pt. 1, p. 283.)
- 281 MORRIS, ELLWOOD. Easy rules for the measurement of earthworks, by means of the prismoidal formula. Phil., 1873. 189 pp., tab., 9 x 6, cl.
- NAGLE, J. C. Field manual for railroad engineers. 1899. (See Ab-364.)
- 288 NEW YORK CENTRAL & HUDSON RIVER R. R. CO. Standard specifications; Book "G." no place, 1902. various pagings, 8 x 14, cl.
- 144 NEWMAN, JOHN. Earthwork slips and subsidences upon public works; their causes, prevention, and reparation; especially written to assist those engaged in the construction or maintenance of railways, docks, canals, roads, water-works, river-banks, reclamation embankments, drainage works, etc. Lond., 1890. 8 + 234 pp., 8 x 5, cl.
- OBERSCHULTE, L. Vorarbeiten für Eisenbahnen. 1898. (See V-120, v. 1, Pt. 1.)
- 184a PAINE, CHARLES. Elements of railroading: A series of short essays reprinted from the *Railroad Gazette*. N. Y., 1885. 5 + 154 pp., 8 x 5, cl.
- PHILBRICK, P. H. Processes incident to the construction of a railway. 1901. (See Ab-352, p. 284.)
- 9 PRELINI, CHARLES. Tunneling: A practical treatise; with additions by Charles S. Hill. N. Y., 1901. 15 + 311 pp., il., tab., 9 x 6, cl.
- 48 REBOUCAS, ANDRÉ. These de concurso. Contents: Estudo das leis de equilíbrio molecular dos sólidos e sua applicação ao empuxo das terras. Moteres empregados na locomotção terrestre. Receptores hydraulicos. Rio de Janeiro, 1880. 109 pp., 10 x 7, pap.
- 282 SIROT, A. Chemins de fer; construction et voie. (Bibliothèque du Conducteur de Travaux Publics.) Paris, 1897. 8 + 495 pp., il., 7 x 5, ro.
- TRATMAN, E. E. R. Railway track and track work. 1901. (See Ad-200a.)
- VERNON-HARCOURT, L. F. Railway, bridge and tunnel engineering. 1902. (See V-124, p. 99.)
- 168 WEALE, JOHN, pub. Rudimentary and practical instructions on the science of railway construction for the use of beginners and those who have commenced practice. Lond., 1861. 8 + 133 pp., il., tab., 7 x 4, cl.
- 143 WEBB, W. L. Railroad construction: Theory and practice: A text-book for the use of students in colleges and technical schools. N. Y., 1900. 10 + 456 pp., il., 18 pl., 11 tab., 9 x 6, cl.
- 188 YATES, J. A., comp. Standard specifications for railroad & canal construction for the use of contractors and civil engineers. Chic., 1886. 134 pp., 8 x 5, cl.
- 95 GREAT BRITAIN. Documents to be sent to the Railway Department, Board of Trade, previously to the second notice of the intention to open a railway being given. Lond., 1888. 8 pp., 18 x 8, pap.
- HARLEM R. R. Agreements between the Mayor, Aldermen and Commonalty of the City of New York, and the Harlem, Hudson River, Sixth, Eighth, Second and Third Avenue R. R. Companies, relative to laying rails through the streets and avenues of the City. 1854. (See Bf-43.)
- HUDSON RIVER R. R. Agreements between the Mayor, Aldermen and Commonalty of the City of New York, and the Harlem, Hudson River, Sixth, Eighth, Second and Third Avenue R. R. Companies, relative to laying rails through the streets and avenues of the City. 1854. (See Bf-43.)
- INDIA. Ballasting of new railways and the sinkage of ballast in banks. Director of Railway Construction. 1902. (See Aa-110, No. 101.)
- 198a — Railed roads: A manual for local boards, district officers, and railway officials; intended chiefly for the Madras Presidency. ed. 2, rev. F. J. E. Spring. Madras, 1900. 11 + 60 pp., tab., 13 x 8, pap.
- JAPAN. Report on the railways of Japan; presented to both Houses of Parliament by command of Her Majesty, Aug., 1885. P. Le P. Trench. 1885. (See Ae-490.)
- LEAVENWORTH, PAWNEE & WESTERN R. R. In the matter of Ross, Steel & Co.'s contract with the L., P. & W. R. R. Co., now Union Pacific R. R., Eastern Division: Statement and exhibits. Note: Relates to contract for construction of the road. 1886. (See Af-340.)

Ac—(Continued).

- 123 **LEBANON SPRINGS R. R.** Estimate for the construction of the L. S. R. R. from Chatham Four Corners to North Bennington, Vt., and Eagle Bridge, Rensselaer County, N. Y. C. S. Cross. N. Y., 1864. 9 pp., 9 x 6, pap.
- LEHIGH VALLEY RY.** Court of Appeals, State of New York: In the matter of the application of L. V. Ry. Co. for the appointment of commissioners to ascertain and determine the points and manner of crossing the tracks and lands of the New York Central & Hudson River R. R. Co., in the City of Buffalo: Appellant's brief. 1883. (See Af-291.)
- In the matter of the application of L. V. Ry. Co. for the appointment of commissioners to ascertain and determine the points and manner of crossing the tracks and lands of the New York Central & Hudson River R. R. Co., in the City of Buffalo: Papers on appeal to the Court of Appeals from order of General Term affirming an order of the Special Term appointing commissioners. 1883. (See Af-292.)
- Supreme Court: In the matter of the application of L. V. Ry. Co. for the appointment of commissioners to ascertain and determine the points and manner of crossing the tracks and lands of the New York Central & Hudson River R. R. Co., in the City of Buffalo: Testimony before the Commissioners. 1883. (See Af-293.)
- MANITOWOC & MISSISSIPPI R. R.** Report to the Stockholders, exhibiting the condition & prospects of the company; by the Investigating Committee. 1858. (See Ae-386.)
- MEXICAN CENTRAL RY.** Instructions to division engineers on construction. 1900. (See Ab-301, p. 8.)
- MORRIS & ESSEX R. R.** In Chancery of New Jersey; between the M. & E. R. R. Co., *et als.*, Compl'ts., and the New Jersey Midland Ry. Co., *et als.*, Deft's.: Cross bill, etc. Jacob Vanatta. Note: Suit relates to the right of the M. & E. R. R. to cross the tracks of the N. J. M. Ry. Co. 1877. (See Af-398.)
- NEW JERSEY MIDLAND RY.** In Chancery of New Jersey; between the Morris & Essex R. R. Co., *et als.*, Compl'ts., and the N. J. M. Ry. Co., *et als.*, Deft's.: Cross bill, etc. Jacob Vanatta. Note: Suit relates to the right of the M. & E. R. R. to cross the tracks of the N. J. M. Ry. Co. 1877. (See Af-398.)
- NEW YORK & NEW ENGLAND R. R.** Minority report of the Commission on Railroad Terminal Facilities. Providence, R. I.—City Council. Providence, 1884. 44 + 40 pp., maps, 9 x 6, b. p. Ah-76, p. 187.
- NEW YORK CENTRAL & HUDSON RIVER R. R.** Court of Appeals, State of New York: In the matter of the application of Lehigh Valley Ry. Co. for the appointment of commissioners to ascertain and determine the points and manner of crossing the tracks and lands of the N. Y. C. & H. R. R. Co., in the City of Buffalo: Appellant's brief. 1883. (See Af-291.)
- In the matter of the application of Lehigh Valley Ry. Co. for the appointment of commissioners to ascertain and determine the points and manner of crossing the tracks and lands of the N. Y. C. & H. R. R. Co., in the City of Buffalo: Papers on appeal to the Court of Appeals from order of General Term affirming an order of the Special Term appointing commissioners. 1883. (See Af-292.)
- 238 —Standard specifications; Book "G." no place, 1902. various pagings, 8 x 14, cl.
- Supreme Court: In the matter of the application of Lehigh Valley Ry. Co. for the appointment of commissioners to ascertain and determine the points and manner of crossing the tracks and lands of the N. Y. C. & H. R. R. Co., in the City of Buffalo: Testimony before the Commissioners. 1883. (See Af-293.)
- NEW YORK CITY.** Agreements between the Mayor, Aldermen and Commonalty of the City of New York, and the Harlem, Hudson River, Sixth, Eighth, Second and Third Avenue R. R. Companies, relative to laying rails through the streets and avenues of the City. 1854. (See Bf-43.)
- NEW YORK, PROVIDENCE & BOSTON R. R.** Minority report of the Commission on Railroad Terminal Facilities. Providence, R. I.—City Council. Providence, 1884. 44 + 40 pp., maps, 9 x 6, b. p. Ah-76, p. 187.
- 25 **NORTHERN PACIFIC R. R.** Memoranda. Note: Report of progress made in the construction of the railroad. N. Y., 1882. 8 pp., 7 x 5, pap.
- 112 **NORTHWESTERN VIRGINIA R. R.** Memorial from P. G. Van Winkle, President. Note: Memorial to the City Council of Baltimore, asking aid in the construction of the tunnels on the railroad. Balt., 1859. 12 pp., tab., 9 x 6, pap.
- PANAMA R. R.** Communication of the Board of Directors to the Stockholders; together with the report of the Chief Engineer to the Directors, and an appendix containing tables of the grades, tangents, and curves of the P. R. R., and observations upon the levels of the Atlantic and Pacific Oceans. 1855. (See Ag-460.)
- PROVIDENCE & BOSTON R. R.** Minority report of the Commission on Railroad Terminal Facilities. Providence, R. I.—City Council. Providence, 1884. 44 + 40 pp., maps, 9 x 6, b. p. Ah-76, p. 187.
- PROVIDENCE & SPRINGFIELD R. R.** Minority report of the Commission on Railroad Terminal Facilities. Providence, R. I.—City Council. Providence, 1884. 44 + 40 pp., maps, 9 x 6, b. p. Ah-76, p. 187.

Ac—(Continued).

- PROVIDENCE & WORCESTER R. R.** Minority report of the Commission on Railroad Terminal Facilities. Providence, R. I.—City Council. Providence, 1884. 44 + 40 pp., maps, 9 x 6, b. p. Ah-76, p. 187.
- 51 **SOCIETÀ ITALIANA PER LE STRADE FERRATE DEL MEDITERRANEO.** Relazione sugli studi e lavori eseguiti dal 1885 al 1897. Roma, 1900. 2 v., pl., tab., 15 x 12, pap., bds.
- 222 **TONAWANDA R. R.** Report upon the company, exhibiting its present situation and future prospects; by a committee. Rochester, N. Y., 1887. 17 pp., 9 x 5, pap.
- 99 **TURKEY.** Forms of contracts for railroads in general, and if necessary, constructing canals, ports and other public works in the Ottoman Empire. Department of Public Works. N. Y., 1883. 28 pp., 11 x 8, pap.
- 97 **TYBEE ISLAND.** Specifications, etc., for wharf and railway on Tybee Island, Ga. U. S.—Corps of Engineers. Savannah, 1896. 7 pp., 14 x 8, pap. no title-page.
- UNION PACIFIC R. R.** Credit Mobilier. no place, 1874. pp. 546-557, 9 x 6, b. p. Aj-52, p. 2.
- UNITED STATES.** Report in relation to the comparative merits of canals and railroads. House Committee on Internal Improvements. 1892. (See Ai-87.)
- 230 —The American railway: its construction, development, management, and appliances; with an introd. by Thomas M. Cooley. T. C. Clarke and others. N. Y., 1889. 28 + 456 pp., il., 10 x 7, cl.

RAILROADS—EQUIPMENT.**Ad**

- ATLANTIC & GREAT WESTERN R. R.** Contract for the hire of rolling stock. United States Rolling Stock Co. and A. & G. W. R. R. Co. 1874. (See Af-322.)
- 136 **BALTIMORE & OHIO R. R.** Specifications for freight car truck, No. 4-B, capacity 60 000 lbs.; 4¼ inch x 8-inch journal. no place, 1896. 6 + 6 pp., pl., 10 x 8, pap.
- 139 —Specifications for 36 feet 0 inch box car without platforms, Class M-8; with automatic brakes and automatic couplers. Capacity 60 000 lbs. no place, 1896. 18 + 5 pp., 10 x 8, pap.
- BUFFALO, ROCHESTER & PITTSBURGH RY.** Decree of the Court requiring the removal of infringing New York air brakes from the cars of the B. R. & P. Ry., with accompanying statement. Westinghouse Air Brake Co. 1898. (See Af-485.)
- 239 **CHEMIN DE FER D'AIX-LA-CHAPELLE A MAESTRICHT.** Embranchement de Maestricht à Hasselt sur territoire Belge: Devis No. 13. Note: Specifications and estimates for the building of the stations. no place, 1855. 63 pp., tab., 9 x 6, pap.
- CHEMIN DE FER D'ORLEANS.** Note on the tilting of flat-footed rails based on the observations carried out on the Orléans Ry. M. Brière. 1902. (See Aa-110, No. 103.)
- 159 **CHEMIN DE FER DE PARIS A LYON ET A LA MEDITERRANEE.** La traction électrique sur la ligne du Fayet à Chamonix. M. Auvert. Paris, 1902. 27 pp., il., pl., 13 x 9, pap.
- 325 **CHEMINS DE FER DE L'ETAT BELGE.** Matériel roulant. Bruxelles, no date. pl., 18 x 24, 8 x 10, pap. no title-page.
- CINCINNATI, NEW ORLEANS & TEXAS PACIFIC RY.** Condensed diagrams of the inspection of the C., N. O. & T. P. Ry.; 1898-99. P. H. Dudley. (See Ae-12.)
- Report of the inspection of the C., N. O. & T. P. Ry. P. H. Dudley. 1890. (See Ae-8.)
- DARJEELING HIMALAYAN RY.** Rail sections suitable for sharp curves. India—Director of Railway Construction. 1902. (See Aa-110, No. 94.)
- EAST COAST RY.** Note on the temporary ferry over the River Godavari at Rajahmundry. J. E. Eaglesome. 1901. (See Aa-110, No. 91.)
- ENGLAND.** Railways of England. W. M. Acworth. Contents: North Western; Midland; Great Northern; Manchester, Sheffield & Lincoln; North Eastern; South Western; Great Western; Great Eastern; Brighton & South Coast; Chatham & Dover; South Eastern. 1889. (See Ae-272.)
- GENERAL.**
- 230 **ADAMS, B. B.** Block system of signaling on American railroads: The methods and appliances used in manual and automatic block signaling; also descriptions of hand-operated and power-operated interlocking machines. N. Y., 1901. 262 pp., il., 9 x 6, cl.
- ADAMS, F. U.** Atmospheric resistance and its relation to the speed of railway trains. 1892. (See Ae-436.)
- ALEXANDER, J. H.** Note on a rail sawing machine. 1901. (See Aa-110, No. 77.)
- AMERICAN RAILWAY MASTER MECHANICS' ASSOCIATION.** Report of proceedings of the annual meeting; 1871, '86, '88-1901. (See Sa3-155.1.)

Ad—(Continued).

GENERAL—(Continued).

- ASSOCIATION OF RAILWAY SUPERINTENDENTS OF BRIDGES AND Buildings.** Bridge warnings for low overhead structures. 1902. (See Aa-110, No. 102.)
- BALDWIN, S. E.** Brief for Defendant: In the Circuit Court of the United States, District of Connecticut; the Electric R. R. Signal Co. vs. the Hall Ry. Signal Co.; in equity. New Haven, 1880. 41 pp., 9 x 6, b. p. Af-286, p. 141.
- BARRY, SIR J. W.** Railway appliances: A description of details of railway construction subsequent to the completion of the earthworks and structures; including a short notice of rolling stock. 1876. (See Ae-142a.)
- 274 **BARRY, SIR J. W., and F. J. BRAMWELL.** Railways and locomotives: Lectures delivered at the School of Military Engineering at Chatham in 1877. Lond., 1882. 9 + 427 pp., il., tab., 9 x 6, cl.
- 276 **BERG, W. G.** Buildings and structures of American railroads: A reference book for railroad managers, superintendents, master mechanics, engineers, architects and students. N. Y., 1898. 34 + 500 pp., il., 12 x 10, cl.
- 328 **BOEDECKER.** Interaction of wheel and rail and its effect on the motion and the resistance of vehicles in trains; fr. the German by A. Bewley. Madras, 1899. 2 + 66 pp., pl., 13 x 8, pap.
- BRIERE, M.** Note on the tilting of flat-footed rails based on the observations carried out on the Orléans Ry. 1902. (See Aa-110, No. 108.)
- CHURCHWARD, JAMES.** Losses to railroads by reason of depressed joints and inadequate spiking, and the remedy therefor. no place, no date. 4 pp., 9 x 6, b. p. Bf-84, p. 249.
- COLE, W. H.** Notes on permanent-way material, platelaying, and points and crossings. 1890. (See Ae-122.)
- 277 **COUCHE, CHARLES.** Permanent way rolling stock and technical working of railways: followed by an appendix on works of art; tr. fr. the French by James N. Schoolbred and J. Edwards Wilson. Lond., 1877-78. 6v., pl., tab., 12 x 9, 12 x 13, cl.
- 181 **DELANO, F. A.** Railway signaling. no place, no date. pp. 267-300, il., 8 x 5, pap.
- 381 **DEMOULIN, MAURICE.** Chemins de fer; locomotive et matériel roulant. (Bibliothèque du Conducteur de Travaux Publics.) Paris, 1896. 8 + 402 pp., il., pl., 8 x 5, ro.
- 243 **DUDLEY, C. B.** Chemical composition and physical properties of steel rails: Papers read at the Lake George meeting, Oct., 1878, with discussion at the Baltimore and Pittsburgh meetings, Feb. and May, 1879. (Transactions, American Institute of Mining Engineers.) Easton, Pa., 1879. 91 pp., il., tab., 9 x 6, pap.
- 272 **EDWARDS, EMORY.** Modern American locomotive engines; their design, construction and management. Phil., 1883. 24 + 383 pp., il., tab., 8 x 5, cl.
- EGLESTON, THOMAS.** Investigations on iron and steel rails, made in Europe in the year 1873. Phil., 1876. 52 pp., 9 x 6, b. p. Mb-54, p. 409.
- EISENBAHNBAU, AUSGENOMMEN VORARBEITEN, UNTERBAU UND TUN-**
nelbau. 1897 (See V-120, v. 5.)
- 146 **EMMONS, WILLIAM.** Emmons' single-rail railroad. N. Y., 1839. 8 pp., il., 9 x 6, pap.
- EVANS, A. W. W.** Abt system of railway for steep inclines. (Transactions, Am. Soc. C. E., Mar., 1886.) N. Y., 1886. pp. 147-180, pl., 9 x 6, b. p. Aa-84, p. 141.
- 140 — Commentary on criticisms concerning American vs. English locomotives, with testimony by English engineers. N. Y., 1880. 55 pp., 9 x 6, pap.
- 282 **FORNEY, M. N.** Catechism of the locomotive. N. Y., 1875. 16 + 609 pp., il., 19 pl., tab., 8 x 5, cl.
- FORREST, JAMES, ed.** Railway rolling stock, comprising the following: I, On the construction of railway wagons, with special reference to economy in dead weight; by Walter Raleigh Browne. II, Railway rolling stock capacity in relation to the dead weight of vehicles; by William Alexander Adams. III, Discussion upon the foregoing papers. Lond., 1876. 68 pp., pl., 9 x 6, b. p. Ae-398, p. 1.
- GAERTH, HENRY.** Standard sections for rails of ordinary and superior quality. Lond., 1872. 20 pp., pl., 10 x 7, b. p. Aj-52, p. 39.
- GALINE, L.** Exploitation des chemins de fer. (Bibliothèque du Conducteur de Travaux Publics.) 1901. (See Ae-434.)
- 106 **GALTON, DOUGLAS.** On the effect of brakes upon railway trains: Second paper. Lond., 1878. pp. 590-632, pl., 8 tab., 9 x 6, pap.
- 144 **GOODWIN, J. M.** Improvement in electric railway-signals; specification forming part of letters patent No. 150,150, dated Apr. 28th, 1874; application filed July 14th, 1873. no place, 1874. 4 pp., pl., 11 x 8, pap.

Ad—(Continued).

GENERAL—(Continued).

- GREAT BRITAIN—BOARD OF TRADE.** Report of the Committee appointed by the Board to enquire into the loss of strength in steel rails through use in railways; together with the appendices thereto. 1900. (See A1-85.)
- HANBY, W. A. E.** Observations on the holding power of some fish-plates and its relation to temperature movements and stresses. 1902. (See Aa-110, No. 107.)
- HISCOX, G. D.** Compressed air in railway service. 1901. (See Ge-22, p. 571.)
- HOLLEY, A. L.** On rail patterns. no place, 1881. 16 pp., 2 pl., 9 x 6, b. p. Ae-396, p. 463.
- 266 **HOXSIE, C. A.** Pocket companion for locomotive engineers and firemen; containing general rules and suggestions for the management of an engine under all circumstances. ed. 5. Albany, 1876. 104 pp., 6 x 4, cl.
- HUMPHRESS, G.** Table of moments of resistance of rails in use on the North Western Ry. and the number required when used as girders. 1901. (See Aa-110, No. 84.)
- INDIA—DIRECTOR OF RAILWAY CONSTRUCTION.** Bouré system of key interlocking. 1901. (See Aa-110, No. 85.)
- Expansion joints for permanent-way on large bridges. 1901. (See Aa-110, No. 83.)
- Memorandum on certain English points, crossings and signals. 1902. (See Aa-110, Nos. 90 and 90a.)
- Note on experiments on gravity catch-sidings and sanded Köpcke-sidings. 1901. (See Aa-110, No. 81.)
- Rail sections suitable for sharp curves. 1902. (See Aa-110, No. 94.)
- Renewals of wooden sleepers. 1902. (See Aa-110, No. 99.)
- 287 **INDIANAPOLIS CAR & MANUFACTURING CO.** Specifications No. 1, for a 34-ft. standard box car. Indianapolis, no date. 8 pp., 9 x 6, pap.
- 238 —Specifications No. 1, for a 34-ft. standard flat car. Note: Includes specifications for a standard 34-ft. gondola car. Indianapolis, no date. 8 pp., 9 x 6, pap.
- 236 —Standard car trucks: Specifications. Indianapolis, no date. 4 pp., 9 x 6, pap.
- 273 **INGOLDSBY, F. S.** Railway economics: A treatise on the problem of how to increase the earnings of freight equipment. St. Louis, 1901. 74 pp., il., 8 x 5, mor.
- 120 **IRON RAILWAY.** Note: Description of an invention using vulcanized rubber in the construction of the permanent way. no place, no date. 15 pp., pl., 8 x 5, pap.
- JOHNSON, J. B.** Creeping of rails on the St. Louis Bridge. no place, 1884. 14 pp., il., 9 x 6, b. p. Aa-83, p. 551.
- 240 **KERNOT, W. C.** On the balancing of locomotive engines. Melbourne, 1901. pp. 362-369, il., 9 x 5, pap.
- KRATZERT, HEINRICH.** Elektrische Eisenbahnen. 1902. (See Ha-77, v. 2, Pt. 3, p. 40.)
- 275 **LANGDON, W. E.** Application of electricity to railway working. Contents: Speaking telegraphs; Block signalling; Miscellaneous appliances. Lond., 1877. 15 + 315 pp., il., pl., 7 x 5, cl.
- LLATAS, ROSENDO.** Experiencias sobre el freno eames. 1890. (See Ya-27, p. 269.)
- MCGLASHAN, C. F.** McGlashan's train telegraph: Certain method of preventing railroad collisions; telegraph offices upon cars. no place, no date. 8 pp., 9 x 6, b. p. no title-page. Ah-76, p. 327.
- 125 **MILLER, E.** Miller's trussed platforms, compression buffers and automatic couplers for railroad cars. N. Y., 1869. 29 pp., pl., 9 x 6, pap.
- NEW YORK CENTRAL & HUDSON RIVER R. R. CO.** Standard specifications; Book "G." 1902. (See Ac-233.)
- NEW YORK RAILROAD CLUB.** Proceedings of a meeting held Nov. 5th, 1888, at which papers on railroad brakes were read and discussed. no place, no date. 28 pp., pl., 9 x 6, b. p. no title-page. Aa-85, p. 189.
- Proceedings of the meeting held Jan. 19th, 1888, at which papers on freight train brakes were read and discussed. N. Y., 1888. 18 pp., 9 x 6, b. p. Aa-84, p. 25.
- PIGOTT, R. E.** Signalling and interlocking. 1902. (See Aa-110, No. 95.)
- 326 **PROCEEDINGS OF A MEETING HELD ON THE INSPECTION TRAIN AT Centraia, Ill.** by the Illinois Central R.R. inspection party, Nov. 12th, 1895; containing talks on track work by J. F. Wallace and Benjamin Reece; also, talk on tie plates by Benjamin Reece and general discussion of same. Chic., 1895. 67 pp., il., 11 x 9, pap.

Ad—(Continued).

GENERAL—(Continued).

- 241 **PROSSER, THOMAS.** Railways and the wheels which run upon them, being a brief enquiry into the relative cost in material, of rails and tires caused by mere abrasion, together with that of the latter, caused by waste in turning, to restore the *statu quo*; also, some remarks on the reduced tractive power required, consequent upon the introduction of Krupp's cast steel rails and tires. N. Y., 1865. 12 pp., 2 tab., 9 x 6, pap.
- 278 **PULLMAN'S PALACE CAR CO.** Annual statement for the fiscal year ending July 31st, 1887-89. no place, 1887-89. 8 v., tab., 9 x 6, pap.
- QUAYLE, ROBERT.** Business problems of the motive power department. no date. (See Ae-427.)
- 242 **RAILWAY ROLLING STOCK**; its manufacture and adaptability to various gauges; Extract from Chapter XII of the Great Industries of the United States, together with remarks of the daily journals. Wilmington, Del., 1871. unpag., il., 9 x 6, pap.
- REBOUCAS, ANDRE.** These de concurso. Contents: Estudo das leis de equilibrio molecular dos solidos e sua applicação ao empuxo das terras. Moteres empregados na locomogão terrestre. Receptores hydraulicos. 1880. (See Ac-48.)
- 260 **RECENT LOCOMOTIVES:** Illustrations, with descriptions and specifications and details, of recent American and European locomotives; reprinted from the *Railroad Gazette*. N. Y., 1886. 112 pp., il., pl., 16 x 11, cl.
- 260b —Same. N. Y., 1901. 532 pp., il., pl., 16 x 11, ½ mor.
- 195 **REYNOLDS, MICHAEL.** Locomotive-engine driving: A practical manual for engineers in charge of locomotive engines. ed. 2. Lond., 1878. 14 + 225 pp., il., tab., 8 x 5, cl.
- 196 —The model locomotive engineer, fireman, and engine-boy; comprising a historical notice of the pioneer locomotive engines and their inventors, with a project for the establishment of certificates of qualification in the running service of railways. Lond., 1879. 12 + 256 pp., il., por., 8 x 5, cl.
- ROADMASTERS' ASSOCIATION OF AMERICA.** Proceedings of the annual convention; 1885-86, '91, 1900-01. (See Sa3-40.1.)
- SHINN, W. P.** On the increased efficiency of railways for the transportation of freight. (*Transactions*, Am. Soc. C. E., Nov., 1882.) N. Y., 1882. pp. 366-396, 9 x 8, b. p. no title-page. Ae-296, p. 521.
- Power brakes for freight trains. (*Transactions*, Am. Soc. C. E., Oct., 1885.) N. Y., 1885. pp. 405-474, 9 x 6, b. p. Aa-89, p. 481.
- SIROT, A.** Chemins de fer; construction et voie. (Bibliothèque du Conducteur de Travaux Publics.) 1897. (See Ac-232.)
- SPRING, F. J. E.** Notes on certain minor details of track-laying on girder bridges, on the timbering of the girders, and on girder expansion and contraction under changes of temperature. 1902. (See Aa-110. No. 106.)
- TOWNSEND.** Circuit Court of the United States for the Southern District of New York; George Westinghouse, Jr., and the Westinghouse Air Brake Co. vs. the New York Air Brake Co., *et al.*, in equity; the Westinghouse Air Brake Co. vs. the New York Air Brake Co., *et al.*, in equity: Opinion of the Judge sustaining the broad claims of the Westinghouse quick-action air brake patents. 1893. (See Af-486.)
- 200a **TRATMAN, E. E. R.** Railway track and track work. ed. 2, rev. N. Y., copyright 1901. 4 + 471 + 9 pp., il., tab., 9 x 6, cl.
- Track accessories; stations, section houses, turntables, mail cranes, etc. 1901. (See Ad-200a, p. 177.)
- Wrecking trains and operation. 1901. (See Ad-200a, p. 429.)
- UNITED STATES—DEPARTMENT OF AGRICULTURE.** Decay of timber and methods of preventing it; by Hermann von Schrenk. Note: Contains specifications and contracts for the impregnation of timber used on European railroad lines. 1902. (See Jc-244.)
- UNITED STATES—DEPARTMENT OF LABOR.** Statement showing the direct cost of labor in the manufacture of one ton of steel rails in the United States, Great Britain, and on the Continent of Europe. (51st Cong., 1st Sess. Senate misc. doc. No. 212.) Wash., 1890. 9 pp., 9 x 6, b. p. no title-page. Aa-85, p. 95.
- UNITED STATES ROLLING STOCK CO.** Annual report to the Shareholders; 1872. N. Y., 1872. 1 v., 9 x 6, b. p. Zj-194, p. 167.
- VICTORIA—COMMISSIONER OF RAILWAYS.** Railway construction, equipment and operation. 1871. (See Ai-75.)
- 132 **WATT, A. W.** Car design and construction. no place, no date. pp. 303-347, il., pl., 8 x 5, pap.
- WESTINGHOUSE AIR BRAKE CO.** Decree of the Court requiring the removal of infringing New York air brakes from the cars of the Buffalo, Rochester & Pittsburgh Ry., with accompanying statement. 1898. (See Af-485.)

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GENERAL—(Continued).

- 279 —Description of the automatic brake for passenger and freight trains, and also system of train signaling apparatus for giving signals from the cars to the engineer. Pittsburgh, 1892. 82 pp., pl., 12 x 10, cl.
- GRAND TRUNK RY. OF CANADA.** Tender for stores. Montreal, 1880. 18 pp., tab., 9 x 6, b. p. Ae-398, p. 305.
- Same; Chicago, Detroit and Port Huron District. no place, 1880. 13 pp., 9 x 6, b. p. Aa-83, p. 421.
- GREAT BRITAIN.** Documents to be sent to the Railway Department, Board of Trade, previously to the second notice of the intention to open a railway being given. 1883. (See Ac-95.)
- On the maintenance and renewal of permanent way; with an abstract of the discussion upon the paper. R. P. Williams. Lond., 1866. 78 pp., il., pl., tab., 9 x 6, b. p. Aa-80, p. 141.
- Permanent way of railways in Great Britain and Ireland; with special reference to the use of timber preserved and unpreserved. John Bogart. (*Transactions, Am. Soc. C. E.*, Jan., 1879.) N. Y., 1879. pp. 18-20, pl., tab., 9 x 6, b. p. Aa-83, p. 439.
- GREAT WESTERN RY.** Memorandum on certain English points, crossings and signals. India-Director of Railway Construction. 1902. (See Aa-110, Nos. 90 and 90a.)
- HARLEM R. R.** Agreements between the Mayor, Aldermen and Commonalty of the City of New York, and the Harlem, Hudson River, Sixth, Eighth, Second and Third Avenue R. R. Companies, relative to laying rails through the streets and avenues of the City. 1854. (See Bf-43.)
- HUDSON RIVER R. R.** Agreements between the Mayor, Aldermen and Commonalty of the City of New York, and the Harlem, Hudson River, Sixth, Eighth, Second and Third Avenue R. R. Companies, relative to laying rails through the streets and avenues of the City. 1854. (See Bf-43.)
- INDIA.** Renewals of wooden sleepers. Director of Railway Construction. 1902. (See Aa-110, No. 99.)
- IOWA.** Annual report of the assessed valuation of railroad property in the State of Iowa for the fiscal year ending Mar., 1886, '82, '84, '86-87, '89-90, '93-1901. (See Ah-42.)
- 384 **LAKE ERIE & WESTERN R. R.** Characteristics of the L. E. & W. R. R. System as existing Jan. 1st, 1895; comp. by W. F. Goltra. Indianapolis, 1895. 102 pp., pl., map, 9 x 2, cl.
- LONDON & NORTH WESTERN RY.** Memorandum on certain English points, crossings and signals. India-Director of Railway Construction. 1902. (See Aa-110, Nos. 90 and 90a.)
- 124 **LONG ISLAND R. R.** Reasons in favor of the use of a "dummy" engine on the railroad from Bedford to Jamaica. no place, no date. 15 pp., pl., 9 x 6, pap.
- 126 —Report of Special Committee on L. I. R. R., with opinions of Counsel. Brooklyn-Common Council. Note: Relates to the use of steam in the limits of Brooklyn. Brooklyn, 1851. 24 pp., 9 x 6, pap.
- NEW YORK CENTRAL & HUDSON RIVER R. R.** Standard specifications; Book "G." 1902. (See Ac-233.)
- NEW YORK CITY.** Agreements between the Mayor, Aldermen and Commonalty of the City of New York, and the Harlem, Hudson River, Sixth, Eighth, Second and Third Avenue R. R. Companies, relative to laying rails through the streets and avenues of the City. 1854. (See Bf-43.)
- NORTH WESTERN RY.** Table of moments of resistance of rails in use on the N. W. Ry. and the number required when used as girders. G. Humphress. 1901. (See Aa-110, No. 84.)
- SOCIETA ITALIANA PER LE STRADE FERRATE DEL MEDITERRANEO.** Relazione sugli studi e lavori eseguiti dal 1885 al 1897. 1900. (See Ac-151.)
- UNITED R. R. COS. OF NEW JERSEY.** Letter descriptive of the experiments on the strength and management of the steam boilers belonging to the United R. R. Cos. of New Jersey; together with a report of the Board appointed. F. B. Stevens. 1871. (See Gd-52.)
- UNITED STATES.** Car trusts in the United States: A brief statement of the law of contracts of conditional sale of rolling stock to railroads. Gherardi Davis and G. M. Browne, Jr. 1894. (See Af-487.)
- The American railway: Its construction, development, management, and appliances; with an introd. by Thomas M. Cooley. T. C. Clarke and others. 1889. (See Ac-230.)

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- ALBANY & SUSQUEHANNA R. R.** Inquiry into the A. & S. R. R. litigations of 1869, and Mr. David Dudley Field's connection therewith. G. T. Curtis. 1871. (See Af-316.)

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- 343 **ALEXANDRIA & FREDERICKSBURG RY.** Classification of freight, rates, rules and regulations of the Baltimore & Potomac R. R. and A. & F. Ry. Cos., Oct. 1st, 1880. no place, 1880. 81 pp., tab., 9 x 7, pap.
- 387 **ALLEGHENY VALLEY RY.** Report of purchase and organization, by Purchasing Committee acting under agreement of Oct. 1st, 1891. Phil., 1891. 7 pp., 9 x 6, pap.
- 346 **ATCHISON, TOPEKA & SANTA FE R. R.** Kansas railroads, and the old Board of Railroad Commissioners. Note: Relates to the regulation of rates of charges for the transportation of freight and merchandise on the A., T. & S. F. and other railroads in the State. Topeka, 1884. 86 pp., tab., 9 x 6, pap.
- 268 — Plan of income bond conversion, Circular No. 68, May 25th, 1892. no place, 1892. 7 pp., 11 x 8, pap.
- 260 **ATLANTIC & GREAT WESTERN R. R.** Bye-laws, adopted Dec. 11th, 1871. N. Y., 1871. 7 pp., 9 x 6, pap.
- Chapters on Erie, and A. & G. W. John Harold. 1879. (See Aj-54.)
- 232 — Letters and statements relating to the management of the railroad. James Robb. no place, 1886. 16 pp., 9 x 6, pap.
- ATLANTIC & GREAT WESTERN RY.** Philadelphia & Erie R. R. Co., *et al.*, vs. the Catawissa R. R. Co., *et al.*, and Andrew Scott vs. the A. & G. W. Ry. Co., *et al.*; in the Supreme Court of Pennsylvania, Eastern District, Nos. 28 and 40, Jan. Term, 1866: Arguments for Defendants. G. W. Biddle and others. Note: Case relates to the lease of the C. R. R. Co. to the A. & G. W. Ry. Co. 1866. (See Af-471.)
- Report of the Examiner, appointed Mar. 28th, 1866, to take testimony in the cases of the Philadelphia & Erie R. R. Co., *et al.*, vs. the Catawissa R. R. Co., *et al.*, and Andrew Scott vs. the A. & G. W. Ry. Co., *et al.*; in the Supreme Court of Pennsylvania, Eastern District, Nos. 28 and 40, Jan. Term, 1866. George Bull. Note: Report relates to rates on freight. 1866. (See Af-472.)
- ATLANTIC & PACIFIC R. R.** Missouri Pacific R. R.; report of Andrew Pierce, General Manager of the A. & P. R. R. and leased lines, Dec., 1875. Note: A general report on the condition of the road. N. Y., 1875. 120 pp., 9 x 6, b. p. Af-306, p. 353.
- BALTIMORE & OHIO R. R.** Address and report of a select committee; also, a letter from the President, recommending measures for the immediate prosecution of the road to the Ohio River. 1848. (See Ab-408.)
- 62 — Address of (Louis) McLane, President, to the Stockholders at their meeting on the 5th of Apr., 1847, respecting a proposed subscription to the capital of the Pittsburg & Connellsville R. R. Co. Balt., 1847. 32 pp., 9 x 6, pap.
- Before the Interstate Commerce Commission: Arguments of Counsel at Washington, D. C., Dec. 15th and 16th, 1897. New York Produce Exchange vs. B. & O. R. R. Co. and others, and Philadelphia Board of Trade and others. Note: Oral argument on inland freight differentials on eastbound grain, flour and provisions. 1898. (See Af-290.)
- 432 — Communication from the President of the B. & O. R. R. Co. to the House of Delegates of Maryland, in reply to their order of the 31st Dec., 1841, calling for certain information in regard to the sale or hypothecation of the State bonds, etc. Annapolis, 1842. 11 pp., tab., 9 x 6, pap.
- 143 — Objections to yielding to Northerners the control of the B. & O. R. R., on which depends the development of the farms, mines, manufactures and trade of the State of Maryland; by a Marylander. Note: Relates to a bill before the Legislature of Maryland increasing the number of directors of the company. Balt., 1880. 25 pp., 9 x 6, pap.
- 119 — Proceedings of railway meetings held in relation to the railroad, and its extensions, branches and connections, at Pittsburg, Uniontown, Chicago, Louisville and elsewhere, and the remarks of John W. Garrett, President, at those points. no place, 1870. 81 pp., map, 9 x 6, pap.
- 231 — Reorganization, plan and agreement, dated June 22d, 1898. no place, 1898. 25 pp., 11 x 9, pap.
- 395 — Reply of John W. Garrett, President of the B. & O. R. R. Co. to William H. Vanderbilt, President of the New York Central & Hudson River R. R. Co., Sept. 30th, 1881. Note: Relates to the question of cut rates and violations of the Trunk Line agreements. Balt., 1881. 20 pp., 9 x 6, b. p.
- 293 — Report of the Executive Officers on the subject of retrenchment. no place, 1842. 38 pp., 9 x 6, pap.
- 431 — Two replies of the B. & O. R. R. Co., to interrogatories propounded to the said company, by the House of Delegates of Maryland on the 25th of Jan. and 10th of Feb., 1844. Note: Relates to the cost of transportation of coal over the B. & O. R. R. Balt., 1844. 23 pp., 9 x 6, pap.
- 343 **BALTIMORE & POTOMAC R. R.** Classification of freight, rates, rules and regulations of the B. & P. R. R. and Alexandria & Fredericksburg Ry. Cos., Oct. 1st, 1880. no place, 1880. 81 pp., tab., 9 x 7, pap.

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- BELGIUM.** Report to C. M. Norwood, President of the Association of the Chambers of Commerce of the United Kingdom, on the railway goods tariffs of Germany, Belgium and Holland compared with those of this country. *Sir B. Samuelson.* Birmingham, 1885. 41 pp., tab., 9 x 6, b. p. Ah-76, p. 477.
- 408 **BOSTON & ALBANY R. R.** Rules and regulations of the Boston & Worcester Division, May, 1872. Bost., 1872. 48 pp., 7 x 5, b. p.
- BOSTON & NEW YORK AIR LINE R. R.** Arbitration. New York, New Haven & Hartford R. R. Co. and B. & N. Y. A. L. R. R. Co. Note: Proceedings of meeting of arbitrators to determine the proportionate share of gross earnings which each company ought to receive. N. Y., 1880. 183 pp., 9 x 6, b. p. Af-236, p. 187.
- 288 —By-laws. no place, no date. 8 pp., 9 x 6, b. p. no title-page.
- BOSTON & WORCESTER R. R. CORPORATION.** Communication by the Directors to the Stockholders in relation to the late award of Commissioners and the strictures of the President of the Western R. R. Corporation thereon. Note: Relates to the transportation contract made by the two companies. 1860. (See Ag-185.)
- 17 **BOSTON, HARTFORD & ERIE R. R.** Opening statement on behalf of the petitioners. T. E. Graves. Note: Petition to the Legislature of Massachusetts asking for financial aid. Bost., 1870. 76 pp., 9 x 6, pap.
- 374 **BROOKLYN, FLATBUSH & CONEY ISLAND RY.** By-laws, adopted Oct., 1877. Brooklyn, 1877. 16 pp., 6 x 4, pap.
- 386 —Circular of the Reorganization Committee. no place, 1887. 4 pp., 10 x 7, pap. no title-page.
- BUFFALO & NEW YORK CITY R. R.** Report of the Committee appointed to investigate the affairs of the Company. 1884. (See Ag-227.)
- 304 **BUFFALO, NEW YORK & PHILADELPHIA R. R.** Rules for the government of the Transportation Department; approved by the President and Board of Directors, to take effect May 1st, 1884. Phil., 1884. 84 pp., 7 x 4, cl.
- BURLINGTON, CEDAR RAPIDS & NORTHERN R. R.** Story of that lease: A hitherto unwritten chapter of inside railway history. Note: Reasons why no dividends were paid to stockholders of the B. C. R. & N. R. Co. after it had been leased by the Rock Island Co. no place, 1885. 38 pp., 9 x 6, b. p. Ah-76, p. 131.
- 407 **CALEDONIAN RY.** Standing orders based on the rules and regulations of the Company, and to be observed by the officers and men in the Superintendent's Department of the Company's service. Glasgow, 1868. 46 pp., 7 x 4, b. p.
- CANADA.** Earning power of railroads, with tables showing facts as to earnings, capitalization, mileage, etc., of one hundred railroads in the United States and Canada. F. W. Mundy. 1902. (See Aa-104.)
- Manual of railroads of the United States; 1879, 1900-02. H. V. and H. W. Poor, pub. Note: Contains account of the railways of Canada. (See Aa-51.)
- Manual of the coupon ticket points and coupon ticket agents in the United States and Canadas alphabetically arranged for the use of general passenger and ticket agents, also "index" to coupon ticket points, arranged for the use of ticket sellers of any form of coupon tickets; 1885. Chic., 1885. 1 v., 9 x 6, b. p. Aa-84, p. 261.
- CANADA SOUTHERN RY.** United States District Court, Northern District of New York: Proofs, pleadings, exhibits and statutes. C. S. Ry. Co. vs. International Bridge Co. and Grand Trunk Ry. Co. of Canada. Note: Case relates to amount of tolls or compensation to be paid by railway companies for use of the International Bridge, Buffalo, N. Y., and includes a description of its construction and cost. 1881. (See Fh-119.)
- CANADIAN PACIFIC RY.** Annual statement respecting the C.P. Ry.; 1884. Canada—Minister of Railways. (See Ai-70.)
- CATAWISSA R. R.** Philadelphia & Erie R. R. Co., *et al.*, vs. the C. R. R. Co., *et al.*, and Andrew Scott vs. the Atlantic & Gt. West. R. W. Co., *et al.*; in the Supreme Court of Pennsylvania, Eastern District, Nos. 28 and 40, Jan. Term, 1866: Arguments for Defendants. G. W. Biddle and others. Note: Case relates to the lease of the C. R. R. Co. to the A. & G. W. Ry. Co. 1866. (See Af-471.)
- Report of the Examiner, appointed Mar. 28th, 1866, to take testimony in the cases of the Philadelphia & Erie R. R. Co., *et al.*, vs. the C. R. R. Co., *et al.*, and Andrew Scott vs. the Atlantic & Gt. West. R. W. Co., *et al.*; in the Supreme Court of Pennsylvania, Eastern District, Nos. 28 and 40, Jan. Term, 1866. George Bull. Note: Report relates to rates on freight. 1866. (See Af-472.)
- CATAWISSA, WILLIAMSPORT & ERIE R. R.** Supreme Court for the Eastern District of Pennsylvania, in equity: Statement and brief on behalf of Complainants, and opinion of the Court. E. S. Sandford and J. Anspach, Jr., vs. C., W. & E. R. R. Co., *et al.* Note: Relates to the alleged right of a railroad to make a contract with an express company giving it the exclusive right to the use of the railroad for express purposes. 1856. (See Af-407.)

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- 187 **CEDAR RAPIDS & MISSOURI RIVER R. R.** Communication of the President. Note: Relates to a proposed lease of the C. R. & M. R. R. Co. to the Galena & Chicago Union R. R. Co. no place, no date. 15 pp., 9 x 6, pap. no title-page.
- 141 —Reply to the communication of the Galena & Chicago Union R. R. Co. Note: Relates to a proposed lease of the C. R. & M. R. R. Co. to the G. & C. U. R. Co. no place, 1864. 37 pp., 9 x 6, pap. no title-page.
- 90 **CENTRAL PACIFIC R. R.** In equitable account with the United States, growing out of the issue of subsidy bonds in aid of construction: A review of the testimony and exhibits presented before the Pacific Ry. Commission, appointed according to the Act of Congress, approved Mar. 3d, 1887. Roscoe Conkling and W. D. Shipman. N. Y., 1887. 134 pp., 9 x 6, pap.
- Preamble and resolution. Luttrell. (43d Cong., 1st Sess. House misc. doc. No. 68.) Note: Resolution asks for the appointment of a committee to investigate the management of the C. P. R. R. Co. no place, 1874. 37 pp., 9 x 6, b. p. no title-page. Af-88, p. 30.
- Relations between the C. P. R. R. Co. and the United States Government: Summary of facts, 1889. G. L. Lansing. (See Aj-55.)
- Report. U. S.-House Committee on Pacific Railroads. 1896. (See Ai-71.)
- Report of the Commission, and of the Minority Commissioner, appointed under the Act of Congress approved Mar. 3d, 1887, entitled "An act authorizing an investigation of the books, accounts and methods of railroads which have received aid from the United States," and for other purposes. U. S.-Pacific Railway Commission. 1887. (See Ai-69.)
- Views of the Minority. U. S.-House Committee on Pacific Railroads. 1896. (See Af-437.)
- Views of the Minority. U. S.-Senate Committee on Pacific Railroads. 1896. (See Af-435.)
- CHESAPEAKE & OHIO R. R.** Statement of its present condition as presented to the Receiver by its officers; also of the character and condition of the suits now pending for the foreclosure of mortgages. no place, 1875. 62 pp., 9 x 6, b. p. Aa-86, p. 625.
- CHESAPEAKE & OHIO RY.** Agreement for the reorganization of the C. & O. Ry. Co., Feb. 7th, 1888. (See Af-375.)
- 373 **CHICAGO, ALTON & ST. LOUIS R. R.** Application of the Company to fund the interest on its bonds. Note: Appeal to the Bondholders. N. Y., 1856. 9 pp., 9 x 6, pap.
- Bondholders' agreement of the C., A. & St. L. R. R. Co. (late Chicago & Mississippi) as made Jan. 10th, 1860, and modified July 9th, 1862. (See Af-372.)
- 139 —Circular to the holders of mortgage bonds of the C., A. & St. L. R. R. Co. J. A. Matteson and E. C. Litchfield. N. Y., 1856. 8 pp., 9 x 6, pap.
- 202 —Circular to the holders of the third mortgage income bonds of the Chicago & Mississippi R. R. Co. J. E. Matteson and E. C. Litchfield. Note: The C. & M. R. R. Co. was merged into the C., A. & St. L. R. R. Co. N. Y., 1857. 12 pp., 9 x 6, pap.
- 284 —Proceedings of meeting of Bondholders, 1862. no place, 1862. 12 pp., 9 x 6, pap. no title-page.
- CHICAGO & EASTERN ILLINOIS R. R.** By-laws, Sept., 1877. Chic., 1877. 10 pp., 9 x 6, b. p. Aa-86, p. 431.
- 408 —Rules and regulations for the government of the employés, to take effect on and after Dec. 1st, 1877. Chic., 1877. 115 pp., 7 x 5, b. p.
- 410 **CHICAGO & ERIE R. R.** Plan and agreement for the reorganization of the Erie system including New York, Lake Erie & Western R. R. Co., New York, Pennsylvania & Ohio R. R. Co., C. & E. R. R. Co.; dated Aug. 20th, 1895. C. H. Coster, Louis Fitzgerald and A. J. Thomas. no place, 1895. 36 pp., tab., 12 x 9, pap.
- CHICAGO & NORTHWESTERN RY.** Circular to Bond and Stockholders, Jan. 21st, 1861. (See Ag-329.)
- Circular to the stockholders, June 20th, 1864. Note: Relates to the consolidation of the Galena & Chicago Union R. R. Co. with the C. & N. W. Ry. Co. 1864. (See Ag-330.)
- Wisconsin railway legislation. D. A. Wells and others. Note: Relates to an appeal of the railroad companies to the United States Supreme Court against the assumption by the Legislature of the right to confiscate property without compensation. 1874. (See Af-401.)
- CHICAGO & ST. PAUL RY.** Wisconsin railway legislation. D. A. Wells and others. Note: Relates to an appeal of the railroad companies to the United States Supreme Court against the assumption by the Legislature of the right to confiscate property without compensation. 1874. (See Af-401.)

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- CHICAGO, BURLINGTON & QUINCY R. R.** Letter to engineers and firemen employed on the C., B. & Q. R. R., Burlington & Missouri River R. R. in Nebraska, Hannibal & St. Joseph R. R., Kansas City, St. Joseph & Council Bluffs R. R., Chicago & Iowa R. R. Note: Relates to the wages paid engineers and firemen. Chic., 1888. 24 pp., 9 x 6, b. p. Aa-87, p. 25.
- Letters relating to the management of the C., B. & Q. R. R. J. M. Forbes and others. no place, 1889. 13 pp., 9 x 6, b. p. no title-page. Aa-85, p. 147.
- 357 — **Northern Securities chart.** Northern Securities Co. Note: Detailed statistics of the Northern Securities Co., the Great Northern Ry. Co., the Northern Pacific Ry. Co. and the C., B. & Q. R. R. Co. Chic., 1901. 4 pp., 12 x 10, pap.
- CHICAGO, DANVILLE & VINCENNES R. R.** Report of the Committee of Investigation, Apr. 14th, 1875. N. Y., 1875. 37 pp., 9 x 6, b. p. Af-297, p. 319.
- 395 **CHICAGO, MILWAUKEE & ST. PAUL R. R.** Argument before the Interstate Commerce Committee of the House of Representatives, in behalf of the Pittsburgh, Fort Wayne & Chicago, and the C., M. & St. P. Railroads, in opposition to the proposed legislation on railroad rates. Farnsworth. no place, no date. 16 pp., 9 x 6, b. p. no title-page.
- 279 **CHICAGO, ROCK ISLAND & PACIFIC RY.** Vanderbilt vs. the Management; the case stated by each of the parties; interviews with Mr. Vanderbilt, Mr. Cable, Mr. Dows and Mr. Riddle; correspondence between Mr. Downing and Mr. Riddle. Note: Relates to the management of the railroad. Chic., 1884. 30 pp., 9 x 6, pap.
- CHOCTAW, OKLAHOMA & GULF R. R.** Standard general instructions to resident engineers. 1901. (See Ac-140.)
- 12 **CINCINNATI, NEW ORLEANS & TEXAS PACIFIC RY.** Condensed diagrams of the inspection of the C., N. O. & T. P. Ry.; 1898-99. P. H. Dudley. no place, 1898-99. 2v., 10 x 5, cl.
- 8 — Report of the inspection of the C., N. O. & T. P. Ry. P. H. Dudley. N. Y., 1890. 22 pp., il., 11 x 9, cl.
- 271 **CINCINNATI R. R.** By-laws, adopted June 3d, 1879. Cin., 1879. 14 pp., 9 x 6, pap.
- 240 **CINCINNATI SOUTHERN RY.** By laws. no place, no date. 8 pp., 9 x 6, pap.
- 318 — Memorandum of agreement between the Trustees of the C. S. Ry. and the C. S. Ry. Co. Note: Relates to the granting of a license with rights of using the road; contains also lease and mortgage to the Cincinnati, New Orleans & Texas Pacific Ry. Co. Cin., 1881. 52 pp., 9 x 6, pap.
- 422 — Some figures on the Southern lease; what the City's profits will be under the new lease. Note: Reprinted from the *Cincinnati Commercial Tribune*. Cin., 1901. 7 pp., 9 x 6, pap.
- Statement of receipts and disbursements, from July, 1869, to Jan., 1876. 1876. (See Ag-471.)
- CONNECTICUT.** Report in regard to passenger fares and freights on the several railroads of the State; also contracts and leases of the New York & New Haven R. R. Co., New York & Harlem R. R. Co., Hartford & New Haven R. R. Co. and Shore Line R. R. Co. Joint Standing Committee on Railroads. no date. (See Ah-43.)
- Some reasons why the Colyer petitions "so called" for cutting down railroad fares should not be granted, and why the bill prepared in pursuance of said petitions should not be passed. Note: Petitions relating to the regulation of railroad rates, made to the General Assembly of Connecticut. no place, no date. 12 pp., 9 x 6, b. p. no title-page. Zj-195, p. 727.
- Speech in the House of Representatives at Hartford, Mar. 29th, 1882, on the proposition to charter a competing railroad. E. D. Robbins. no place, 1882. 11 pp., 9 x 6, b. p. no title-page. Ab-455, p. 17.
- DANVILLE, OLNEY & OHIO RIVER R. R.** Charter and by-laws. Kansas, Ill., 1856. 13 pp., 9 x 6, b. p. Af-295, p. 21.
- DUTCH EAST INDIA.** Les chemins de fer aux colonies et dans les pays neufs: Fascicule concernant les chemins de fer et les tramways à vapeur aux Indes Orientales Néerlandaises. J. W. Post. 1900. (See Ac-6.)
- EAST TENNESSEE, VIRGINIA & GEORGIA R. R.** Agreement for the purchase and reorganization of the railroad. 1885. (See Af-352.)
- 415 **EAST TENNESSEE, VIRGINIA & GEORGIA RY.** Plan and agreement for the reorganization of the Richmond & West Point Terminal Ry. & Warehouse Co., Richmond & Danville R. R. Co. and system, E. T., V. & G. Ry. Co. and system, dated May 1st, 1893. no place, 1893. 49 pp., tab., 12 x 9, pap.
- 420 — Richmond & West Point Terminal Ry. & Warehouse Co. and its subordinate companies, including the Richmond & Danville R. R. Co. and system, E. T., V. & G. Ry. Co. and system: Plan of reorganization, as modified, dated Feb. 20th, 1894. no place, 1894. 15 pp., 12 x 9, pap.
- 407 **EASTERN COUNTIES RY.** Rules and regulations, Sept. 12th, 1854. Stratford, 1857. 187 pp., 7 x 5, b. p.

Ac—(Continued).

- 273 **ENGLAND.** Railways of England. W. M. Acworth. Contents: North Western; Midland; Great Northern; Manchester, Sheffield & Lincoln; North Eastern; South Western; Great Western; Great Eastern; Brighton & South Coast; Chatham & Dover; South Eastern. Lond., 1889. 16 + 427 pp., il., 9 x 6, cl.
- 410 **ERIE R. R.** Plan and agreement for the reorganization of the Erie system including New York, Lake Erie & Western R. R. Co., New York, Pennsylvania & Ohio R. R. Co., Chicago & Erie R. R. Co.; dated Aug. 20th, 1895. C. H. Coster, Louis Fitzgerald and A. J. Thomas. no place, 1895. 36 pp., tab., 12 x 9, pap.
- ERIE RY.** Analysis of the Erie Reorganization Bill, with a statement, based upon official documents and figures, prepared for and at the request of holders of E. Ry. shares, and submitted for the consideration of the Legislature. John Livingston. 1876. (See Af-411.)
- Chapters on Erie, and Atlantic & Great Western. John Harold. 1879. (See Aj-54.)
- 64 —Letter accompanied with an official statement made to the Board of Directors, showing a true statement of the result of its operations for the fiscal year ended Sept. 30th, 1873. S. H. Dunan. N. Y., 1874. 26 pp., 9 x 6, pap.
- 122 —Letter upon the traffic resources of the E. Ry. Co. G. R. Blanchard. N. Y., 1873. 88 pp., 9 x 6, pap.
- 413 —Report of the proceedings of a public meeting of the Shareholders of the railway, held at the Guildhall Coffee House, City of London, May 10th, 1877. Note: Meeting held for the purpose of considering the present position of the company, with a view to a reform in its management. Lond., 1877. 23 pp., 11 x 8, pap.
- Statement made to the public as to reasons for resigning the office of General Auditor of the E. Ry. Co., with report of the financial condition of the company at the time of resignation. S. H. Dunan. no place, 1874. 26 pp., 9 x 6, b. p. no title-page. Ah-77, p. 515.
- 375 —The Erie war. Note: Account of the attempt by the management of the Hudson River R. R. Co. to control the E. Ry. no place, 1868 (?) 16 pp., 9 x 6, pap.
- 65 —To the Bond and Shareholders of the E. Ry. Co. James McHenry. Note: Letter relating to the management of the E. Ry. Co. no place, 1877. 16 pp., 10 x 7, pap.
- FITCHBURG R. R.** Report of Committee of Investigation, appointed at annual meeting, Jan. 29th, 1856. 1857. (See Ag-945.)
- 396 **FRANCE.** Railroad employés in France: An account of the organization of railroad service on a French railroad, with the position, privileges and pay of men of different grades, and the full regulations of provident and pension funds. F. Jacquelin. N. Y., 1877. 37 pp., tab., 9 x 6, b. p.
- Report to the Secretary of State on the relations of the governments of the nations of Western Europe to the railways; by Simon Sterne. U. S.-Department of State. (49th Cong., 2d Sess. Senate misc. doc. No. 66.) no place, 1887. 45 pp., 9 x 6, b. p. Ah-76, p. 519.
- GENERAL.**
- 34 **ACWORTH, W. M.** Railways and the traders: A sketch of the railway rates question in theory and practice. Lond., 1891. 14 + 378 pp., tab., 8 x 5, cl.
- 6 **ADAMS, C. F., Jr.** Notes on railroad accidents. N. Y., 1879. 6 + 280 pp., 8 x 5, cl.
- 496 **ADAMS, F. U.** Atmospheric resistance and its relation to the speed of railway trains. Chic., 1892. 89 pp., il., pl., 10 x 7, ½ ro.
- ALEXANDER, E. P.** Railway practice; its principles and suggested reforms reviewed. 1887. (See Aa-97.)
- 118 **ASHLEY, O. D.** Railway corporations and the people: A paper read before "The Round Table," St. Louis, Mar. 11th, 1898. N. Y., 1898. 27 pp., 9 x 6, pap.
- BLANCHARD, G. R.** Shall railway pooling be permitted? no place, no date. 14 pp., 9 x 6, b. p. no title-page. Aa-85, p. 43.
- BOEDECKER.** Interaction of wheel and rail and its effect on the motion and the resistance of vehicles in trains; fr. the German by A. Bewley. 1899. (See Ad-328.)
- BONHAM, J. M.** Railway secrecy and trusts. 1890. (See Aa-98.)
- 425 **BROOKS, J. T.** Problems in the management of a railway system. no place, no date. 60 pp., 8 x 5, pap.
- 400 **CHANUTE, OCTAVE.** Cost of railroad freight traffic. Chic., 1885. 16 pp., 4 tab., 9 x 6, b. p.
- 155 **CLARK, L. A.** Clark's railway digest: A practical hand-book of valuable information to the railway employé. Atchison, 1885. 52 pp., map, tab., 6 x 4, bds.
- COUCHE, CHARLES.** Permanent way rolling stock and technical working of railways; followed by an appendix on works of art; tr. fr. the French by James N. Schoolbred and J. Edwards Wilson. 1877-78. (See Ad-277.)

Ae—(Continued).**GENERAL—(Continued).**

- 415 **DU LIN, CH., and A. FOUSSET.** État actuel des chemins de fer; avenir et complément du réseau; construction et exploitation économiques des nouvelles lignes complémentaires. Paris, 1874. 148 pp., tab., 9 x 6, pap.
- EVANS, A. W. W.** Abt system of railway for steep inclines. (*Transactions*, Am. Soc. C. E., Mar., 1886.) N. Y., 1886. pp. 147-180, pl., 9 x 6, b. p. Aa-84, p. 141.
- 321a **FINDLAY, GEORGE.** Working and management of an English railway. Lond., 1889. 7 + 270 pp., il., pl., 8 x 5, cl.
- FLAMACHE, A.** L'évolution prochaine des chemins de fer à grande vitesse: Conférence donnée devant la Société Belge des Ingénieurs et des Industriels. 1902. (See Aa-71.)
- 398 **FORREST, JAMES, ed.** Railway management, comprising the following papers: I, The working of railways, by George Findlay; II, On sorting trains by gravitation, by William Cudworth; III, On railway statistics, by John Thornhill Harrison; with an abstract of the discussion upon the papers. Lond., 1875. 84 pp., 5 pl., tab., 9 x 6, b. p.
- 494 **GALINE, L.** Exploitation des chemins de fer. (Bibliothèque du Conducteur de Travaux Publics.) Paris, 1901. 10 + 704 pp., il., 7 x 5, ro.
- 140 **GRIERSON, J.** Railway rates; English and foreign. Lond., 1886. 8 + 208 + 72 pp., 9 x 6, cl.
- HADLEY, A. T.** Railroad transportation; its history and its laws. 1886. (See Aa-96.)
- 400 **HAINES, H. S.** Efficient railroad management; advantages of an Advisory Board to the General Manager. Chic., 1884. 18 pp., 9 x 6, b. p.
- 428 **HARRIS, A. C.** Railroads and their servants. no place, no date. 25 pp., 8 x 5, pap.
- HOFFMAN, FRANZ.** Account of the experimental investigation of vehicle resistance carried out in 1884 by the Saxon State Ry. 1900. (See Aa-110, No. 88.)
- HOLE, JAMES.** National railways: An argument for state purchase. 1898- (See Aa-88.)
- ILLINOIS—RAILROAD AND WAREHOUSE COMMISSION.** Reasonable maximum railroad rates made by the Railroad and Warehouse Commissioners: Are they conclusive of what are reasonable railroad charges in Illinois? Opinion of the Commissioners. Springfield, 1879. 5 pp., 9 x 6, b. p. Aa-86, p. 421.
- INGOLDSBY, F. S.** Railway economics: A treatise on the problem of how to increase the earnings of freight equipment. 1901. (See Ad-273.)
- 188 **IVATTS, E. B.** Railway management at stations. Lond., 1885. 6 + 598 pp., il., 9 x 6, cl.
- 300 **JEANS, J. S.** Railway problems: An inquiry into the economic conditions of railway working in different countries. Lond., 1887. 28 + 560 pp., tab., 9 x 6, cl.
- 426 **JEFFERY, E. T.** The people and their railways: Address before the Annual Convention of the Interstate Commerce Commissioners and the Boards of State Railway Commissioners of the United States, held in the City of St. Louis, May 11th, 1897. Denver, 1897. 38 pp., 9 x 6, pap.
- JERVIS, J. B.** Treatise on the construction and management of railways; designed to afford useful knowledge in a popular style to the holders of this class of property. 1866. (See Ac-15a.)
- JOHNSON, J. B.** Creeping of rails on the St. Louis Bridge. no place, 1884. 14 pp., il., 9 x 6, b. p. Aa-83, p. 551.
- 400 **KIRKMAN, M. M.** Division of railway expenses and earnings, and the limitation of accounts in connection therewith. Chic., no date. 76 pp., 9 x 6, b. p.
- 400 — Freight way-bill: how it and other freight blanks may be amended so as to surround the collections for switching, loading, unloading, detentions *en route*, yardage, storage, cooperage, and other miscellaneous receipts connected with the freight traffic, with needed safeguards; and also providing a simple and necessary method of accounting for money advanced by shippers for the purpose of prepaying charges over connecting lines and for other purposes; and explaining how such advances may be disposed of when the freight blanks make no provision therefor: The way-bill illustrated and described. Chic., 1882. 28 pp., 9 x 6, b. p.
- 400 — Maintenance of railways; evolutions of labor; employer *versus* employé: Their relations; present method of operating railways based on the reciprocal interest of labor: Its continuance dependent thereon; how railroads may be operated without the intervention of employes if labor troubles render necessary; fixed *versus* traffic expenses; what it costs to preserve a property separate from cost of conducting its traffic. Chic., no date. 73 pp., 9 x 6, b. p.
- 812 — Railway disbursements and the accounts into which they are naturally divided. N. Y., 1877. 8 + 284 pp., 8 x 5, cl.

Ac—(Continued).**GENERAL—(Continued).**

- 41 —Railway expenditures; their extent, object and economy. Chic., 1880. 2 v., 7 x 5, cl.
- 400 —Railway legislation: The growth of our railway system and some of the mistakes attending it; tendency of legislation; the real versus the sentimental: That which would benefit a country in contradistinction to that which would cripple it; the impossibility of distinguishing state from interstate traffic; baneful effects of legislation that presumes a separation possible. ed. 4. Chic., 1886. 28 pp., 9 x 6, b. p.
- 400 —Treatise on the method of paying large bodies of men; how railroad employés should be paid: A paymasters' manual. Chic., no date. 78 pp., 9 x 6, b. p.
- MANGLES, J. H. Interference or non-interference with railway companies. no place, 1874. pp. 898-918, 10 x 7, b. p. Aj-52, p. 15.
- 400 MINOT, R. S. Railway travel in Europe and America; with twenty-five tables of recent and novel statistics of journeys, speeds, fares, etc., for travellers and others. Bost., 1882. 28 pp., 25 tab., 9 x 6, b. p.
- NYSENS-HART, JULIEN. Les communications interurbaines à grande vitesse. 1902. (See Ba-4.)
- PAINE, CHARLES. Elements of railroading: A series of short essays reprinted from the *Railroad Gazette*. 1885. (See Ac-184a.)
- 399 PIERSON, S. F. The passenger pool and a clearing house. Chic., 1884. 19 pp., 9 x 6, b. p.
- PRIESTLEY, NEVILLE. Note on the capacity of lines of railway. 1902. (See Aa-110, No. 96.)
- 427 QUAYLE, ROBERT. Business problems of the motive power department. no place, no date. 37 pp., 8 x 5, pap.
- RICHMOND & DANVILLE R. R. Report of the General Superintendent on the cost of transportation. Note: Discussion of the various elements entering into the cost of transportation on railroads. 1877. (See Ag-427, Appendix to 30th Annual report.)
- ROSCHÉ, HERMANN. Ausführung und Unterhaltung des Oberbaues. 1897. (See V-120, v. 5, Pt. 2, p. 266.)
- RULES GOVERNING THE CONDITION OF, AND REPAIRS TO, FREIGHT cars for the interchange of traffic; revised at Saratoga, N. Y., June 10th, 1884. N. Y., 1884. 12 pp., 9 x 6, b. p. Aa-83, p. 587.
- 396 SHINN, W. P. How can railways be made more efficient in the transportation of freight? (*Transactions*, Am. Soc. C. E., June, 1883.) N. Y., 1883. 60 pp., 9 x 6, b. p. no title-page.
- 396 —On the increased efficiency of railways for the transportation of freight. (*Transactions*, Am. Soc. C. E., Nov., 1882.) N. Y., 1882. pp. 265-396, 9 x 6, b. p. no title-page.
- STERNE, SIMON. Railway reorganization. no place, no date. pp. 38-59, 9 x 6, b. p. no title-page. Aa-85, p. 25.
- TRATMAN, E. E. R. Organization and maintenance of track work. 1901. (See Ad-200a, p. 261.)
- 329 TURNER, J. J. The telegraph as applied to train movement. Indianapolis, 1885. 92 pp., 11, tab., 6 x 4, mor.
- UNITED STATES—INTERSTATE COMMERCE COMMISSION. Payment of commissions: Extract from the Second Annual Report of the Commission, Dec. 1st, 1888. no place, 1888. 12 pp., 9 x 6, b. p. Aa-85, p. 57.
- VICTORIA—COMMISSIONER OF RAILWAYS. Railway construction, equipment and operation. 1871. (See Ai-75.)
- 400 VINING, E. P. Necessity for a classification of freight, and the principles upon which it is based. Chic., 1884. 10 pp., 9 x 6, b. p.
- WESTERN NEW YORK CAR SERVICE ASSOCIATION. Annual report for the fiscal year ending June 30th, 1890-98, 1900-02. (See Sa3-92.1.)
- 217 GEORGIA R. R. & BANKING CO. List of stockholders on Apr. 12th, 1886. Augusta, 1886. 15 pp., 9 x 6, pap.
- 424 GERMANY. Report on Prussian railways; presented to both Houses of Parliament by command of His Majesty, Feb., 1902. Robert Collier. (Diplomatic and Consular Reports, Miscellaneous Ser., No. 574.) Lond., 1902. 56 pp., 10 x 6, pap.
- Report to C. M. Norwood, President of the Association of the Chambers of Commerce of the United Kingdom, on the railway goods tariffs of Germany, Belgium and Holland compared with those of this country. Sir B. Samuelson. Birmingham, 1885. 41 pp., tab., 9 x 6, b. p. Ah-76, p. 477.
- Report to the Secretary of State on the relations of the governments of the nations of Western Europe to the railways; by Simon Sterne. U. S.-Department of State. (49th Cong., 2d Sess. Senate misc. doc. No. 66.) no place, 1887. 45 pp., 9 x 6, b. p. Ah-76, p. 519.

Ae—(Continued).

- Reports on traffic rates on German railways. Crowe. no place, 1881. pp. 327-342, tab., 9 x 6, b. p. no title-page. Af-308, p. 343.
- GRAND TRUNK RY. OF CANADA.** United States District Court. Northern District of New York: Proofs, pleadings, exhibits and statutes. Canada Southern Ry. Co. vs. International Bridge Co. and G. T. Ry. Co. of Canada. Note: Case relates to amount of tolls or compensation to be paid by railway companies for use of the International Bridge, Buffalo, N. Y., and includes a description of its construction and cost 1881. (See Fh-119.)
- GREAT BRITAIN.** Amended general orders under the Regulation of Railways Act, 1873. Railway Commissioners. no place, 1875. 11 pp., 13 x 9, b. p. Af-326, p. 17.
- Bradshaw's railway manual, shareholders' guide and official directory; 1882-94. (See Aa-101.)
- 397 —General arrangements relating to coaching traffic, agreed to and adopted by the companies parties to the clearing system. Railway Clearing House. Lond., 1887. 123 pp., 9 x 6, b. p.
- General classification of goods by merchandise trains on railways, Jan., 1887. Railway Clearing House. Lond., 1887. 131 pp., tab., 9 x 6, b. p. no title-page. Aa-81, p. 769.
- 382 —General instructions relating to goods, mineral, and live stock traffic, 1st Jan., 1881. Note: Standard forms for use of railroads in Great Britain. Lond., 1881. 52 pp., 9 x 6, b. p.
- Interference or non-interference with railway companies. J. H. Mangles. no place, 1874. pp. 898-918, 10 x 7, b. p. Aj-52, p. 15.
- On the maintenance and renewal of permanent way; with an abstract of the discussion upon the paper. R. P. Williams. Lond., 1886. 78 pp., 11, pl., tab., 9 x 6, b. p. Aa-80, p. 141.
- 21 —Our railways: Sketches historical and descriptive, with practical information as to fares and rates, etc., and a chapter on railway reform. Joseph Parsloe. Lond., 1878. 12 + 294 pp., tab., 8 x 5, cl.
- Practice before the Railway Commissioners under "The Regulation of Railways Act, 1873"; with the law applicable thereto, and the general orders, forms, table of fees, statutes, etc. R. G. Junner. 1874. (See Af-308.)
- 412 —Railroad impositions detected; or, Facts and arguments to prove that the Manchester & Liverpool Ry. has not paid one per cent. net profit, and that the Birmingham, Bristol, Southampton, Windsor, and other railways, are, and must for ever be, only bubble speculations. R. Cort. ed. 2. Lond., 1884. 195 pp., tab., 9 x 6, pap.
- Railway and Canal Traffic Act, 1888, Pt. 1. W. A. Hunter. Note: A full account of the existing law with respect to maximum rates and terminal charges and the new classification of goods and revised schedules of rates of twenty-four principal railways of the United Kingdom. 1889. (See Af-310.)
- 397 —Railway Clearing House; its origin, object, work, and results; with a brief description of the clubs and societies in operation amongst the officers. rev. ed. Lond., 1884. 37 pp., 9 x 6, b. p.
- 397 —Railway Clearing House; its place in relation to the working and management of English railways. Edward McDermott. Lond., no date. 64 pp., 9 x 6, b. p.
- 300 —Railway problems: An inquiry into the economic conditions of railway working in different countries. J. S. Jeans. Lond., 1887. 28 + 560 pp., tab., 9 x 6, cl.
- 140 —Railway rates; English and foreign. J. Grierson. Lond., 1886. 8 + 208 + 72 pp., tab., 9 x 6, cl.
- Railway reform: its importance and practicability considered as affecting the nation, the shareholders, and the government. William Galt. 1865. (See Aa-91.)
- Railway rights and duties: A summary of the law relating to a railway in operation. James Ferguson. 1889. (See Af-309.)
- 397 —Regulations of the Railway Clearing House, 1886. Lond., 1886. 7 + 174 pp., 9 x 6, b. p.
- Report from the Joint Select Committee on Railway Companies Amalgamation; together with the proceedings of the Committee, minutes of evidence, and appendix. 1872. (See Ai-90.)
- Report from the Select Committee on Railways and Canals Amalgamation; 1st-2d, 1846. Lond., 1846. 2 v., 13 x 9, b. p. Ai-93, p. 689.
- Report from the Select Committee on Railways (Rates and Fares); together with the proceedings of the Committee, minutes of evidence and appendix. 1882. (See Ai-92.)
- Report to C. M. Norwood, President of the Association of the Chambers of Commerce of the United Kingdom, on the railway goods tariffs of Germany, Belgium and Holland compared with those of this country. Sir B. Samuelson. Birmingham, 1885. 41 pp., tab., 9 x 6, b. p. Ah-76, p. 477.

Ae—(Continued).

- Report to the Secretary of State on the relations of the governments of the nations of Western Europe to the railways; by Simon Sterne. U. S.-Department of State. (49th Cong., 2d Sess. Senate misc. doc. No. 66.) no place, 1887. 45 pp., 9 x 6, b. p. Ah-76, p. 519.
- 4 —Report upon the proceedings at the enquiry held by the Board of Trade, 1889-90; with an appendix containing tables, diagrams, digest of evidence, etc. Thomas Waghorn and Marshall Stevens. Note: Relates to the revised schedule of rates called for by the Railway and Canal Traffic Act of 1884. Manchester, 1890. 2 v. in 1, tab., 13 x 8, cl.
- 332 —Rules and regulations for the guidance of the officers and men in the service of railway companies, Nov., 1883. Note: Standard form for use of railroads in Great Britain. Lond., 1883. 180 pp., 9 x 6, b. p.
- 397 —Special instructions relating to goods, minerals, and live stock traffic, 1st Jan., 1886. Railway Clearing House. Lond., no date. 35 pp., 9 x 6, b. p.
- 397 —Summary of articles named in the general classification of goods by merchandise trains on railways, 1886. Railway Clearing House. no place, 1886. 40 + 131 pp., 9 x 6, b. p. no title-page.
- 404 **GREAT NORTHERN RY. (ENGLAND).** General rules and regulations to be observed by all persons in the service of the company, 1st June, 1878. Lond., 1879. 216 pp., 9 x 6, b. p.
- 307 —Superannuation fund: Certificate of membership, and copy of the rules and regulations dated 25th June, 1875, amended 31st Dec., 1890. Lond., 1890. 23 pp., 8 x 5, b. p.
- 401 **GREAT NORTHERN RY. (IRELAND).** Rules and regulations for the guidance of the officers and servants of the company. Dublin, 1890. 193 pp., 7 x 5, b. p.
- 357 **GREAT NORTHERN RY. (U. S.)** Northern Securities chart. Northern Securities Co. Note: Detailed statistics of the Northern Securities Co., the G. N. Ry. Co., the Northern Pacific Ry. Co. and the Chicago, Burlington & Quincy R. R. Co. Chic., 1901. 4 pp., 12 x 10, pap.
- 401 **GREAT SOUTHERN & WESTERN RY.** Rules and regulations for the guidance of the officers and servants in this company's service. Dublin, 1879. 174 + 21 + 27 pp., 7 x 5, b. p.
- 406 **GREAT WESTERN RY.** Code of signals and general instructions for the use of the superintendents, stationmasters, clerks, guards, police, porters, etc., in the service of the company, July, 1865. Lond., 1865. 109 pp., 7 x 5, b. p.
- 406 —Rules and regulations to be observed by all persons in the service of the company. Lond., 1883. 245 pp., 7 x 5, b. p.
- HANNIBAL & ST. JOSEPH R. R.** Letter to the Stockholders, preferred and common, of the H. & St. J. R. R. Co., containing a statement and explanation of the suit in the United States Circuit Court in Missouri, to determine and settle the question of dividends between the preferred and common stock; and also some facts exposing the management, financial conditions and affairs of said company. John Bailey. N. Y., 1870. 67 pp., 9 x 6, b. p. Af-305, p. 159.
- HOUSTON EAST & WEST TEXAS RY.** Charter and by-laws of the company, with a description of the counties immediately upon and adjacent to its line. 1878. (See Af-359.)
- 375 **HUDSON RIVER R. R.** The Erie war. Note: Account of the attempt by the management of the H. R. R. Co. to control the Erie Ry. no place, 1868 (?) 16 pp., 9 x 6, pap.
- ILLINOIS.** Railroad and Warehouse Commission: its benefits to the people: Special message in answer to a resolution of the House of Representatives, 31st General Assembly, Feb. 17th, 1879. Illinois-Governor. Springfield, 1879. 15 pp., 9 x 6, b. p. Aa-42, p. 225.
- Reasonable maximum railroad rates made by the Railroad and Warehouse Commissioners: Are they conclusive of what are reasonable railroad charges in Illinois? Opinion of the Commissioners. Springfield, 1879. 5 pp., 9 x 6, b. p. Aa-86, p. 421.
- Remarks of General Manager, Illinois Central R. R. Co., before the Board of Railroad and Warehouse Commissioners of the State of Illinois, at Springfield, 2d Sept., 1887. E. T. Jeffery. Note: Protest against rates and freight classification made by Board. Chic., 1887. 32 pp., tab., 9 x 6, b. p. Ab-456, p. 97.
- ILLINOIS CENTRAL R. R.** Remarks of General Manager, I. C. R. R. Co., before the Board of Railroad and Warehouse Commissioners of the State of Illinois, at Springfield, 2d Sept., 1887. E. T. Jeffery. Note: Protest against rates and freight classification made by Board. Chic., 1887. 32 pp., tab., 9 x 6, b. p. Ab-456, p. 97.
- Report in relation to the payment by the I. C. R. R. Co. of seven per cent. of its gross earnings into the Treasury of the State. Illinois-House Committee on Finance. Springfield, 1883. 68 pp., 9 x 6, b. p. Ab-455, p. 149.
- Report of annual inspection of track, showing comparative standing of each section; 1892-1900. I. C. R. R. Co. and Yazoo & Mississippi Valley R. R. Co. (See Ag-477.)

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- 216 —Report of the Delegates selected by the Joint Committee appointed at a meeting of British shareholders of the I. C. R. R. Co., held in London on the 26th of Jan., 1877, and by the Administration Office for American railroad securities in Amsterdam. Douglas Galton and H. J. de M. Oyens. no place, 1877. 32 pp., map, 9 x 6, b. p.
- Report to W. R. Ackerman, President of the I. C. R. R. Co., on the condition of the railroad. W. H. Osborn. no place, 1882. 3 pp., 11 x 8, b. p. Af-304, p. 219.
- INDIANA & ILLINOIS CENTRAL RY.** By-laws, May, 1871. N. Y., 1871. 12 pp., 9 x 6, b. p. Af-307, p. 153.
- Local freight tariff, to take effect June 1st, 1873: General directions, rules and conditions. no place, 1873. 16 pp., tab., 9 x 6, b. p. no title-page. Af-307, p. 301.
- Schedule of lands belonging to the company. Indianapolis, 1857. 45 pp., 9 x 6, b. p. Aa-82, p. 295.
- 283 **INDIANAPOLIS, DECATUR & SPRINGFIELD RY.** By-laws, Nov., 1875. N. Y., 1875. 15 pp., 7 x 5, b. p.
- 283 —Instructions to employes to secure a correct accounting at the shops of the company. no place, no date. 6 pp., 6 x 4, b. p.
- Letter to the holders of the first mortgage bonds. Note: Relates to the non-payment of interest on the mortgage. no place, 1885. 3 pp., 9 x 6, b. p. Aa-83, p. 595.
- Report of the Committee of the second mortgage bondholders. no place, 1888. 5 pp., 9 x 6, b. p. no title-page. Aa-87, p. 19.
- Report of the Roadmaster giving result of the annual inspection; 1886-87. Indianapolis, 1887-88. 2 v., 9 x 6, b. p., no title-page. Aa-87, pp. 247, 259.
- 283 —Rules for station agents. Indianapolis, 1880. 6 pp., 7 x 4, b. p.
- 303 **INDIANAPOLIS UNION RY.** Rules and regulations to be observed by employes of all roads using "the Belt railroad"; prepared by the Manager and approved by the Board of Directors, to take effect on Nov. 8th, 1885. Indianapolis, 1885. 44 pp., 6 x 4, cl.
- 409 **INTERNATIONAL & GREAT NORTHERN R. R.** Plan and agreement for the reorganization of the indebtedness of the I. & G. N. R. R. Co., dated Jan. 27th, 1892. N. Y., 1892. 10 pp., 10 x 8, pap.
- IRELAND.** Regulations of the Irish Railway Clearing House, 1868. Dublin, no date. 106 pp., 9 x 6, b. p. Aa-80, p. 1.
- ITALY.** Report to the Secretary of State on the relations of the governments of the nations of Western Europe to the railways; by Simon Sterne. U. S. Department of State. (49th Cong., 2d Sess. Senate misc. doc. No. 66.) no place, 1897. 45 pp., 9 x 6, b. p. Ah-76, p. 519.
- 490 **JAPAN.** Report on the railways of Japan; presented to both Houses of Parliament by command of Her Majesty, Aug., 1885. P. Le P. Trench. Lond., 1885. 20 pp., map, tab., 10 x 6, pap.
- 346 **KANSAS.** Kansas railroads, and the old Board of Railroad Commissioners. Note: Relates to the regulation of rates of charges for the transportation of freight and merchandise on the Atchison, Topeka & Santa Fé and other railroads in the State. Topeka, 1884. 86 pp., tab., 9 x 6, pap.
- KANSAS PACIFIC R. R.** Report of the Commission, and of the Minority Commissioner, appointed under the Act of Congress approved Mar. 3d, 1887, entitled "An act authorizing an investigation of the books, accounts and methods of railroads which have received aid from the United States, and for other purposes." U. S.-Pacific Railway Commission. 1887. (See Ai-69.)
- LA CROSSE & MILWAUKEE R. R.** Compilation of the several acts of the Legislature of Wisconsin affecting the L. C. & M. R. R. Co.; together with the by-laws of that company; also some general laws of the State in relation to railroads. M. M. Strong, comp. 1856. (See Af-365.)
- LAKE ERIE & WESTERN RY.** Agreement for the purchase and reorganization of the company. 1886. (See Af-345.)
- 402 **LAKE SHORE & MICHIGAN SOUTHERN RY.** Baggage Department: Rules and regulations for the information of passengers and employes. Cleveland, 1874. 37 pp., 7 x 5, b. p.
- 402 —General Order No. 114. Cleveland, 1874. 8 pp., 7 x 5, b. p.
- 403 **LOGANSPOUT, CRAWFORDSVILLE & SOUTHWESTERN RY.** Instructions for operating the railway, to take effect Jan. 1st, 1875. Logansport, 1874. 86 pp., 7 x 5, b. p.
- 404 **LONDON & NORTH WESTERN RY.** Rules and regulations for the conduct of the traffic, and for the guidance of the officers and men in the service of the company, 20th Oct., 1888. Lond., 1888. 170 pp., 9 x 6, b. p.
- 321a —Working and management of an English railway. George Findlay. Lond., 1889. 7 + 270 pp., il., pl., 8 x 5, cl.

Ae—(Continued).

- 406 **LONDON, CHATHAM & DOVER RY.** Rules and regulations to be observed by all persons in the service of the company. Lond., 1878. 120 pp., 7 x 5, b. p.
- LONG ISLAND R. R.** Reasons in favor of the use of a "dummy" engine on the railroad from Bedford to Jamaica. no date. (See Ad-124.)
- 259 — **Report of Committee in relation to the accident on the 28th day of Aug., 1865, near Jamaica.** Long Island City, 1865. 9 pp., 9 x 6, pap.
- **Report of Special Committee on L. I. R. R., with opinions of Counsel.** Brooklyn-Common Council. Note: Relates to the use of steam within the limits of Brooklyn. 1851. (See Ad-126.)
- LOUISVILLE & NASHVILLE R. R.** *In re the L. & N. R. R. Co. et al.*: Opinion on petitions for relief under Section Four of the Act to Regulate Commerce. U. S.-Interstate Commerce Commission. Wash., 1887. 29 pp., 9 x 6, b. p. Af-298, p. 255.
- **Railroad war: St. Louis & Southeastern Ry. Co. vs. the L. & N. R. R. and the Nashville, Chattanooga & St. Louis Ry. Co.** Note: Relates to the maintenance of uniform railroad rates. no place, 1878. 28 pp., 9 x 6, b. p. Aa-82, p. 361.
- LOUISVILLE, NEW ALBANY & CHICAGO RY.** John T. Mills, Jr., vs. L. N. A. & C. Ry. Co., May Term, 1896, in equity: Report of the Receiver in compliance with the order of the Judge of date Aug. 27th, 1896. W. H. McDoel. Note: Gives inventory of property and estimated receipts and expenditures from Aug. 25th, 1896, to Oct. 1st, 1896. (See Af-449.)
- 385 — **Statement. plans and agreement of bondholders, dated Oct. 10th, 1896.** N. Y., 1896. 11 pp., tab., 9 x 6, pap.
- 412 **MANCHESTER & LIVERPOOL RY.** Railroad impositions detected; or, Facts and arguments to prove that the M. & L. Ry. has not paid one per cent. net profit, and that the Birmingham, Bristol, Southampton, Windsor and other railways are, and must for ever be, only bubble speculations. R. Cort. ed. 2. Lond., 1884. 195 pp., tab., 9 x 6, pap.
- 386 **MANITOWOC & MISSISSIPPI R. R.** Report to the Stockholders, exhibiting the condition & prospects of the company; by the Investigating Committee. Menasha, 1858. 48 pp., 8 x 5, pap.
- MASSACHUSETTS.** Partial review of the system of accounts introduced by the Massachusetts Railroad Commissioners. no place, 1877. 16 pp., 9 x 6, b. p. Ah-76, p. 31.
- 123 **MEMPHIS & CHARLESTON R. R.** Reorganization plan and agreement, dated Apr. 27th, 1896. no place, 1896. 16 pp., 11 x 8, pap.
- MEXICO.** Manual of railroads of the United States; 1879, 1900-02. H. V. and H. W. Poor, pub. Note: Contains account of the railways in Mexico. (See Aa-51.)
- MICHIGAN CENTRAL R. R.** Is a rebate in railroad freight rates an unjust discrimination? Opinion of the Commissioners. Illinois-Railroad and Warehouse Commission. Note: Opinion in case of E. K. Knowlton vs. M. C. R. R. Co. no place, 1879. 12 pp., 9 x 6, b. p. Aa-82, p. 395.
- 405 **MIDLAND RY.** Rules and regulations for the guidance of the officers and men in the service of the company, June, 1871. Lond., 1871. 209 pp., 11, 6 x 5, b. p.
- 405 — **Same; Oct., 1883.** Lond., 1883. 273 pp., 6 x 5, b. p.
- 414 **MILWAUKEE & MINNESOTA R. R.** Reply to "A statement of leading facts relating to a pretended right of redemption of a portion of the road of the Milwaukee & St. Paul Ry. Co."; by a director of the M. & M. R. R. Co. N. Y., 1863. 29 pp., 11 x 7, pap.
- **Report to the Stockholders, showing the effect of the late decisions of the Supreme Court of the United States in favor of the company; with a statement of the present financial position and business prospects of the road.** 1865. (See Ag-346.)
- 414 **MILWAUKEE & ST. PAUL RY.** Reply to "A statement of leading facts relating to a pretended right of redemption of a portion of the road of the M. & St. P. Ry. Co."; by a director of the Milwaukee & Minnesota R. R. Co. N. Y., 1863. 29 pp., 11 x 7, pap.
- MILWAUKEE, WAUKESHA & MISSISSIPPI RIVER R. R.** Acts incorporating the M., W. & M. R. R. Co.; together with a report of the Committee relating to a plan of operations, adopted by the Board of Directors, Milwaukee, May 19th, 1849. (See Af-127.)
- 411 **MISSOURI, KANSAS & TEXAS RY.** Findings in the investigation of matters relating to the M., K. & T. Ry. Co. E. C. M. Rand. N. Y., 1888. 84 pp., maps, tab., 12 x 10, pap.
- **Report of the Committee appointed by the Executive Committee of the Board of Directors to investigate the financial and physical condition of that company and its relations to the Missouri Pacific Ry. Co.** 1888. (See Ag-533.)
- 4 — **Report of the Committee appointed by the Hon. David J. Brewer, U. S. Circuit Judge for the District of Kansas, to investigate the divisional earnings of the M., K. & T. Ry. Co.; with circular letter from stockholders.** J. Waldo, G. J. Pollock and James Hagerman. N. Y., 1889. 20 pp., 9 x 6, pap.

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- MISSOURI PACIFIC RY.** Report of Andrew Pierce, General Manager of the Atlantic & Pacific R. R. and leased lines, Dec., 1875. Note: A general report on the condition of the road. N. Y., 1875. 120 pp., 9 x 6, b. p. Af-305, p. 353.
- Report of the Committee appointed by the Executive Committee of the Board of Directors of the Missouri, Kansas & Texas Ry. Co. to investigate the financial and physical condition of that company and its relations to the M. P. Ry. Co. 1888. (See Ag-533.)
- NASHVILLE, CHATTANOOGA & ST. LOUIS RY.** Railroad war: St. Louis & Southeastern Ry. Co. *vs.* the Louisville & Nashville R. R. and the N., C. & St. L. Ry. Co. Note: Relates to the maintenance of uniform railroad rates. no place, 1878. 29 pp., 9 x 6, b. p. Aa-82, p. 361.
- Tennessee railroads: Address to the Joint Railroad Committee of the 44th General Assembly of Tennessee, by the President, N., C. & St. L. Ry., Feb. 18th, 1885. J. W. Thomas. Note: Address relates to a bill before the General Assembly regulating railroad rates. Nashville, 1885. 13 pp., 9 x 6, b. p. Ah-76, p. 567.
- NEBRASKA.** Annual report of the Board of Transportation for the year ending June 30th, 1895. (See Ah-95.)
- NETHERLANDS.** Report to C. M. Norwood, President of the Association of the Chambers of Commerce of the United Kingdom, on the railway goods tariffs of Germany, Belgium and Holland compared with those of this country. Sir B. Samuelson. Birmingham, 1885. 41 pp., tab., 9 x 6, b. p. Ah-76, p. 477.
- Report to the Secretary of State on the relations of the governments of the nations of Western Europe to the railways; by Simon Sterne. U. S.-Department of State. (49th Cong., 2d Sess. Senate misc. doc. No. 66.) no place, 1887. 45 pp., 9 x 6, b. p. Ah-76, p. 519.
- NEW JERSEY SOUTHERN R. R.** Report on the present condition and future prospects of sundry railroads proposed to be consolidated with the N. J. S. R. R. Co. J. G. Stevens. N. Y., 1875. 24 pp., 9 x 6, b. p. Ag-307, p. 139.
- NEW SOUTH WALES.** Railways of New South Wales: Report on their construction and working, from 1872 to 1875 inclusive. Commissioner for Railways. 1876. (See Ai-88.)
- 60 **NEW YORK & ERIE R. R.** Address to the Stockholders and Creditors of the N. Y. & E. R. R. Co. George Bruce. Note: Relates to the management of the road. no place, 1859. 16 pp., 9 x 6, pap.
- 152 —The reason of it. Samuel Hallett. Note: Attacks the management of the N. Y. & E. R. R. N. Y., 1859. 24 pp., 9 x 6, pap.
- 80 —To the Stockholders and Creditors of the N. Y. & E. R. R. Co. George Bruce. Note: Statement issued after the road had been placed in the hands of a receiver. no place, 1859. 8 pp., 9 x 6, pap.
- NEW YORK & HARLEM R. R.** In the matter of the complaint of J. E. A. Moore and others against the N. Y. & H. R. R., as to rates of freight on milk. New York State-Board of Railroad Commissioners. Note: Majority report. Albany, 1883. 64 pp., 9 x 6, b. p. no title-page. Ab-455, p. 381.
- 302 —Rules and regulations for the guidance & instruction of employes, Grand Central Station and Harlem Line, Jan. 1st, 1885. no place, 1885. 46 pp., pl., 7 x 4, cl.
- 283 **NEW YORK & NEW ENGLAND R. R.** Organization for conducting the business of the company, adopted Jan. 27th, 1880. Bost., 1880. 16 pp., 9 x 6, b. p.
- 293 —Rules and regulations for the government of employes, prepared by order of the Board of Directors, to take effect Nov. 29th, 1880. Bost., 1880. various pagings, 9 x 6, b. p.
- Statement of the financial condition on Dec. 31st, 1883. Bost., 1884. 204 pp., 9 x 6, b. p. Af-305, p. 139.
- 91 **NEW YORK & NEW HAVEN R. R.** Management of the N. Y. & N. H. R. R. Co., investigated by a stockholder. N. Y., 1859. 8 pp., tab., 9 x 6, pap.
- NEW YORK & OSWEGO MIDLAND R. R.** Report to the Bondholders, Creditors and Stockholders by the Committee appointed by the Creditors to inquire into the affairs of the company. no place, 1874. 11 pp., 9 x 6, b. p. no title-page. Ag-305, p. 605.
- 280 **NEW YORK CENTRAL & HUDSON RIVER R. R.** Argument before the Assembly Committee on Railroads, in opposition to the bill, "An act to regulate the transportation of freight by railroad corporations," and also the bill, "An act to create a Board of Railroad Commissioners and to define and regulate their powers and duties," Mar. 17th, 1880. C. M. Depew. Albany, 1880. 30 pp., 9 x 6, pap.
- Argument before the Special Investigating Committee of the New York Assembly, at the Chamber of Commerce, Nov. 28th and 29th, 1879. C. M. Depew. N. Y., 1879. 76 pp., 9 x 6, b. p. Zj-195, p. 265.

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- 429 —Joint letter of W. H. Vanderbilt, President of the N. Y. C. & H. R. R. R., and H. J. Jewett, President of the New York, Lake Erie & Western R. R., to the Special Committee on Railroads of the Assembly of the State of New York. Note: Letter defending the management of the above named railroads. N. Y., 1879. 61 pp., 10 x 7, pap.
- 395 —Reply of John W. Garrett, President of the Baltimore & Ohio R. R. Co., to William H. Vanderbilt, President of the N. Y. C. & H. R. R. R. Co., Sept. 30th, 1881. Note: Relates to the question of cut rates and violations of the Trunk Line agreements. Balt., 1881. 20 pp., 9 x 6, b. p.
- 101 **NEW YORK, LAKE ERIE & WESTERN R. R.** By-laws and organization for conducting the business of the company, as approved by the Board of Directors, Sept. 25th, 1879. N. Y., 1879. 33 pp., 9 x 6, pap.
- 429 —Joint letter of W. H. Vanderbilt, President of the New York Central & Hudson River R. R., and H. J. Jewett, President of the N. Y., L. E. & W. R. R., to the Special Committee on Railroads of the Assembly of the State of New York. Note: Letter defending the management of the above-named railroads. N. Y., 1879. 61 pp., 10 x 7, pap.
- 410 —Plan and agreement for the reorganization of the Erie system, including N. Y., L. E. & W. R. R. Co., New York, Pennsylvania & Ohio R. R. Co., Chicago & Erie R. R. Co.; dated Aug. 20th, 1895. C. H. Coster, Louis Fitzgerald and A. J. Thomas. no place, 1895. 36 pp., tab., 12 x 9, pap.
- Reply of the President to the request of the engineers, conductors, firemen and trainmen for a new schedule of pay and regulations. no place, 1890. 28 pp., 9 x 6, b. p. no title-page. Aa-85, p. 105.
- 94 —Report on the N. Y., L. E. & W. R. R., June, 1883. E. B. Grant. Note: A report on the condition and management of the road. N. Y., 1883. 54 pp., 9 x 6, pap.
- NEW YORK, NEW HAVEN & HARTFORD R. R.** Arbitration. N. Y., N. H. & H. R. R. Co. and Boston & New York Air Line R. R. Co. Note: Proceedings of meeting of arbitrators to determine the proportionate share of gross earnings which each company ought to and shall receive. N. Y., 1880. 183 pp., 9 x 6, b. p. Af-296, p. 187.
- Argument before the Joint Standing Committee on Railroads, in regard to the false returns of the N. Y., N. H. & H. R. R. Co. made to the Railroad Commissioners of Connecticut. W. C. Case. Note: Contains supplement by Henry L. Goodwin on "Is swearing to false returns perjury?" Hartford, 1882. 15 pp., 9 x 6, b. p. no title-page. Af-294, p. 595.
- 283 —General rules and regulations for the private use of employes only, taking effect Mar. 1st, 1881. no place, 1881. 16 pp., 8 x 4, b. p.
- 410 **NEW YORK, PENNSYLVANIA & OHIO R. R.** Plan and agreement for the reorganization of the Erie system, including New York, Lake Erie & Western R. R. Co., N. Y., P. & O. R. R. Co., Chicago & Erie R. R. Co.; dated Aug. 20th, 1895. C. H. Coster, Louis Fitzgerald and A. J. Thomas. no place, 1895. 36 pp., tab., 12 x 9, pap.
- 136 **NEW YORK, PENNSYLVANIA & OHIO RY.** Atlantic & Great Western, now called the N. Y., P. & O. Ry.: A statement read at the City Terminus Hotel, Cannon Street, London, on Monday, May 10th, 1886. J. McHenry. no place, 1886. 29 pp., 9 x 6, pap.
- 280 **NEW YORK STATE.** Argument before the Assembly Committee on Railroads, in opposition to the bill, "An act to regulate the transportation of freight by railroad corporations," and also the bill, "An act to create a Board of Railroad Commissioners and to define and regulate their powers and duties," Mar. 17th, 1890. C. M. Depew. Albany, 1890. 30 pp., 9 x 6, pap.
- Argument before the Special Investigating Committee of the New York Assembly, at the Chamber of Commerce, Nov. 28th and 29th, 1879. C. M. Depew. N. Y., 1879. 76 pp., 9 x 6, b. p. Zj-195, p. 265.
- Explanations for the guidance of railroad companies in making reports in accordance with the new form adopted Mar., 1884. State Board of Railroad Commissioners. Albany, 1884. 34 pp., 9 x 6, b. p. Ah-76, p. 273.
- 20 —Joint letter of Messrs. Vanderbilt & Jewett, considered by the Committee on Railroad Transportation. New York Chamber of Commerce. Note: Relates to the proposed investigation of railroad management in the State of New York. no place, 1879. 8 pp., 9 x 6, pap.
- Legislative restrictions on the carrying trade of the railways of the State of New York, viewed in connection with outside competition; addressed to the citizens of the City and State of New York. 1860. (Af-459.)
- Report of the Commerce Commission. 1900. (See Zd-101.)
- 124 **NORFOLK & WESTERN R. R.** Reorganization of the N. & W. R. R. Co.: Plan and agreement, dated Mar. 12th, 1896. N. Y., 1896. 21 pp., 11 x 8, pap.
- 407 **NORTH BRITISH RY.** General rules and regulations to be observed by all persons in the service of the company, approved by the Board of Directors on 21st Oct., 1880, brought into operation 1st Dec., 1880. Glasgow, 1880. 151 pp., 7 x 8, b. p.

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- 406 **NORTH LONDON RY.** Rules and regulations for the conduct of the traffic, and for the guidance of the officers and men in the service of the company. Lond., 1888. 95 pp., 7 x 5, b. p.
- NORTHERN PACIFIC R. R.** Charter, organization, proceedings, by-laws and appendix. 1865. (See Af-468.)
- 419 — Reorganization, Mar. 16th, 1896. Note: Plan and agreement. no place, 1896. 29 pp., tab., 12 x 9, pap.
- 171 — Statement to the Stockholders of the N. P. R. R. Co. Henry Villard. Note: Statement in answer to criticisms on the management of the road. N. Y., 1884. 24 pp., 9 x 6, pap.
- 357 **NORTHERN PACIFIC RY.** Northern Securities chart. Northern Securities Co. Note: Detailed statistics of the Northern Securities Co., the Great Northern Ry. Co., the N. P. Ry. Co. and the Chicago, Burlington & Quincy R. R. Co. Chic., 1901. 4 pp., 12 x 10, pap.
- 357 **NORTHERN SECURITIES CO.** Northern Securities chart. Note: Detailed statistics of the Northern Securities Co., the Great Northern Ry. Co., the Northern Pacific Ry. Co. and the Chicago, Burlington & Quincy R. R. Co. Chic., 1901. 4 pp., 12 x 10, pap.
- 330 **OHIO & MISSISSIPPI R. R.** Reports in relation to the closing of the trust of the O. & M. R. R. Co. and the organization of a new corporation, presented to certificate holders at a special meeting, Sept. 10th, 1867. N. Y., 1867. 18 pp., 9 x 6, pap.
- 388 **OREGON & CALIFORNIA R. R.** Traffic statistics showing the business of the O. & C. R. R. from 1876 to 1888. W. A. Smith, comp. no place, 1884. unpag., tab., 9 x 6, pap.
- 406 **OREGON RY. & NAVIGATION CO.** Plan and agreement for reorganization. no place, 1895. 81 pp., 10 x 7, pap.
- 421 **OREGON SHORT LINE & UTAH NORTHERN RY.** Plan and agreement for reorganization, dated Feb. 20th, 1896. no place, 1896. 23 pp., 11 x 8, pap.
- PENNSYLVANIA.** Argument before the Committee on Railroads of the House of Representatives of Pennsylvania, upon the bill presented by Mr. Hulings of Venango County, to prevent unjust discrimination by railroad companies, Feb. 13th, 1883. F. B. Gowen. Phil., 1883. 32 pp., 9 x 6, b. p. Ab-455, p. 287.
- 399 — Remarks before the Judiciary (General) Committee of the Senate of Pennsylvania on the Anti-Discrimination Bill, Apr. 9th, 1885. G. B. Roberts. Phil., 1885. 23 pp., 9 x 6, b. p.
- 399 **PENNSYLVANIA R. R.** Argument on the Anti-Discrimination Bill pending before the Judiciary (General) Committee of the Senate of Pennsylvania. J. F. Green. Phil., 1885. 21 pp., 9 x 6, b. p.
- Philadelphia & Erie R. R. Co., *et al.*, vs. the Catawissa R. R. Co., *et al.* and Andrew Scott vs. the Atlantic & Gt. West. R. W. Co., *et al.*; in the Supreme Court of Pennsylvania, Eastern District, Nos. 28 and 40, Jan. Term. 1866: Arguments for Defendants. G. W. Biddle and others. Note: Case relates to the lease of the C. R. R. Co. to the A. & G. W. Ry. Co. 1866. (See Af-471.)
- Proceedings of the meeting of Traveling Accountants held at Indianapolis, Ind., Feb. 9th and 10th, 1886. Note: Meeting called by P. R. R. for purpose of revising credit list. Pittsburg, 1886. 10 pp., 9 x 6, b. p. Af-305, p. 1.
- 399 — Remarks before the Judiciary (General) Committee of the Senate of Pennsylvania on the Anti-Discrimination Bill, Apr. 9th, 1885. G. B. Roberts. Phil., 1885. 23 pp., 9 x 6, b. p.
- Report of the Examiner, appointed Mar. 28th, 1866, to take testimony in the cases of the Philadelphia & Erie R. R. Co., *et al.*, vs. the Catawissa R. R. Co., *et al.*, and Andrew Scott vs. the Atlantic & Gt. West. R. W. Co., *et al.*; in the Supreme Court of Pennsylvania, Eastern District, Nos. 28 and 40, Jan. Term. 1866. George Bull. Note: Report relates to rates on freight. 1866. (See Af-472.)
- Review of the Report of the P. R. R. Company's Investigating Committee. no place, no date. 30 pp., 9 x 6, b. p. no title-page. Ag-305, p. 427.
- PEOPLE'S PACIFIC R. R.** Charter, organization, address of the President, Josiah Perham, with the by-laws of the Board of Commissioners. 1860. (See Af-334.)
- PHILADELPHIA & ERIE R. R.** *Et al.*, vs. the Catawissa R. R. Co., *et al.* and Andrew Scott vs. the Atlantic & Gt. West. R. W. Co., *et al.*; in the Supreme Court of Pennsylvania, Eastern District, Nos. 28 and 40, Jan. Term. 1866: Arguments for Defendants. G. W. Biddle and others. Note: Case relates to the lease of the C. R. R. to the A. & G. W. Ry. Co. 1866. (See Af-471.)
- Report of the Examiner, appointed Mar. 28th, 1866, to take testimony in the cases of the P. & E. R. R. Co., *et al.*, vs. the Catawissa R. R. Co., *et al.* and Andrew Scott vs. the Atlantic & Gt. West. R. W. Co., *et al.*; in the Supreme Court of Pennsylvania, Eastern District, Nos. 28 and 40, Jan. Term. 1866. George Bull. Note: Report relates to rates on freight. 1866. (See Af-472.)

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- 396 **PHILADELPHIA & READING R. R.** Address to the Share and Bondholders of the P. & R. R. Co., at the Academy of Music, Philadelphia, on Saturday, Apr. 23d, 1881. F. B. Gowen. Phil., 1881. 62 pp., 9 x 6, b. p.
 — Agreement of Creditors and Stockholders with the Board of Reconstruction Trustees of the P. & R. R. Co., and the P. & R. Coal & Iron Co. Note: Contains plan of reorganization. 1886. (See Af-389.)
- 380 — Circular to the Stockholders of the P. & R. R. Co. with reference to the approaching election of a president, managers and officers for the year 1882. McCalmont Brothers & Co. Lond., 1881. 68 pp., 10 x 6, pap.
- 345 — Mr. Gowen's defence: Speeches of Mr. Franklin B. Gowen and others, concerning the P. & R. R. Co., delivered at a public meeting held by Mr. Gowen at the Cannon Street Hotel, London, on Thursday, the 10th of Nov., 1881; preface, commentary and notes. McCalmont Brothers & Co. Lond., 1881. 72 pp., 10 x 6, pap.
- 204 — Plan of readjustment and explanatory statement, adopted by the Board of Managers, May 27th, 1893. Phil., 1893. 20 pp., 9 x 6, pap.
- 166 — Plan of reorganization of the P. & R. R. Co. and affiliated companies, as amended Dec. 14th, 1886. Phil., 1886. 17 pp., 9 x 6, pap.
 — Rascalities of high railroad officials, and how to check and correct them. William Passmore. Note: Relates to the issue of passes by the P. & R. R. Co. Phil., 1869. 86 + 12 pp., 9 x 6, b. p. Bf-34, p. 737.
 — Reports of the Finance Committee and Bondholders' Committee and plan for financial reorganization, Jan. 26th, 1885. Phil., 1885. 35 pp., 9 x 6, b. p. Ab-456, p. 348.
- 389 — Statement and proposed financial readjustment submitted to the Shareholders and Creditors in interest by the Board of Managers, Frank S. Bond, President, Aug. 10th, 1881. no place, 1881. 21 pp., 9 x 6, b. p.
- 396 — Statement to the Shareholders of the P. & R. R. Co. defending himself against various accusations regarding his official conduct. F. S. Bond. no place, 1881. 10 pp., 9 x 6, pap. no title-page.
- 396 — Verbatim report of proceedings at meeting of Share and Bondholders, held at Cannon Street Hotel, Dec. 23d, 1880. no place, 1880. 32 pp., 9 x 6, b. p.
- 142 **PITTSBURGH & CONNELLSVILLE R. R.** Reply to the so-called "Defence" of a majority of the City of Baltimore's directors in the P. & C. R. R., Apr., 1863. B. H. Latrobe. Pittsburg, 1863. 16 pp., 9 x 6, pap.
- 395 **PITTSBURGH, FORT WAYNE & CHICAGO R. R.** Argument before the Interstate Commerce Committee of the House of Representatives, in behalf of the P., F. W. & C., and the Chicago, Milwaukee & St. Paul Railroads, in opposition to the proposed legislation on railroad rates. Farnsworth. no place, no date. 16 pp., 9 x 6, b. p. no title-page.
 — Laws relating to the company together with the by-laws and organization. 1866. (See Af-436.)
- PITTSBURGH, FORT WAYNE & CHICAGO RY.** Circular to the Bondholders and Stockholders concerning recent financial arrangements. 1864. (See Ag-463.)
- 121 — Organization and by-laws for conducting the business of the company, Apr. 1st, 1866. ed. 4. Pittsburg, 1866. 23 pp., 7 x 4, pap.
- 121a — Same; 1869. ed. 6. Pittsburg, 1869. 29 pp., 9 x 6, pap.
 — Statement of the Trustees relative to the reorganization, and laws and documents in connection therewith, and the new securities. 1862. (See Af-453.)
- RENSSELAER & SARATOGA R. R.** Report of the Executive Committee to the Board of Directors and Stockholders, July 1st, 1867. Troy, 1867. 13 pp., 9 x 6, b. p. Aa-85, p. 269.
- 416 **RICHMOND & DANVILLE R. R.** Plan and agreement for the reorganization of the Richmond & West Point Terminal Ry. & Warehouse Co., R. & D. R. R. Co. and system, East Tennessee, Virginia & Georgia Ry. Co. and system, dated May 1st, 1893. no place, 1893. 49 pp., tab., 12 x 9, pap.
- 420 — Richmond & West Point Terminal Ry. & Warehouse Co. and its subordinate companies, including the R. & D. R. R. Co. and system, East Tennessee, Virginia & Georgia Ry. Co. and system: Plan of reorganization as modified, dated Feb. 20th, 1894. no place, 1894. 15 pp., 12 x 9, pap.
- 420 **RICHMOND & WEST POINT TERMINAL RY. & WAREHOUSE CO.** And its subordinate companies, including the Richmond & Danville R. R. Co. and system, East Tennessee, Virginia & Georgia Ry. Co. and system: Plan of reorganization as modified, dated Feb. 20th, 1894. no place, 1894. 15 pp., 12 x 9, pap.
- 416 — Plan and agreement for the reorganization of the R. & W. P. T. Ry. & Warehouse Co., Richmond & Danville R. R. Co. and system, East Tennessee, Virginia & Georgia Ry. Co. and system, dated May 1st, 1893. no place, 1893. 49 pp., tab., 12 x 9, pap.

Ae—(Continued).

- 417 —Plan of reorganization, dated Mar. 1st, 1892. no place, 1892. 28 pp., tab., 12 x 11, pap.
- ST. JOSEPH & DENVER CITY R. R.** Report, 1873. Note: Statement by the President showing the condition and affairs of the company. 1873. (See Ag-348.)
- 250 **ST. JOSEPH & WESTERN R. R.** To the holders of the securities of the St. Joseph & Pacific R. R. Co., Eastern Division: Kansas & Nebraska R. R. Co., Western Division: land scrip holders of St. Joseph & Denver City R. R.; line of road from St. Joseph, Mo. to Grand Island, Nebr. Note: Attack on policy of the management of St. J. & W. R. R. N. Y., 1880. 26 pp., 9 x 6, pap.
- 360 **ST. LOUIS, ALTON & TERRE HAUTE R. R.** By-laws. St. Louis, 1863. 16 pp., 9 x 6, pap.
- Report of the Committee appointed by the Stockholders. May 27th, 1873. Note: Committee appointed to ascertain the condition of the company. 1873. (See Ag-226.)
- 109 —vs. Charles Butler, Samuel J. Tilden, Russell Sage and Robert Bayard: Statement of Special Committee appointed to investigate charges made in regard to the management and affairs of the company. Thomas Denny, J. S. Barnes and W. B. Cutting. N. Y., 1876. 8 pp., 9 x 6, pap.
- 418 **ST. LOUIS & SAN FRANCISCO RY.** Plan and agreement for reorganization, dated Apr. 21st, 1896. no place, 1896. 26 pp., tab., 12 x 9, pap.
- ST. LOUIS & SOUTHEASTERN RY.** Railroad war: St. L. & S. Ry. Co. vs. the Louisville & Nashville R.R. and the Nashville, Chattanooga & St. Louis Ry. Co. Note: Relates to the maintenance of uniform railroad rates. no place, 1878. 28 pp., 9 x 6, b. p. Aa-82, p. 361.
- 423 **SANYO RY.** Articles of association of the S. Ry. Co., Ltd. Note: Text in Japanese and English. no place, no date. 16 pp., 7 x 5, pap.
- 328 **SCOTLAND.** Railways of Scotland; their present condition, with a glance at their past and a forecast of their future. W. M. Acworth. Lond., 1890. 8 + 199 pp., map, 8 x 5, cl.
- SIoux CITY & PACIFIC R. R.** Report of the Commission. and of the Minority Commissioner, appointed under the Act of Congress approved Mar. 8d, 1887, entitled "An act authorizing an investigation of the books, accounts and methods of railroads which have received aid from the United States, and for other purposes." U. S.-Pacific Railway Commission. 1887. (See A1-69.)
- 379 **SOUTH SIDE R. R.** Facts pertinent to the status of the first mortgage bonds of the S. S. R. R. Co.; their value and security. Petersburg, Va., 1866. 9 pp., 9 x 6, pap.
- SYRACUSE & UTICA R. R.** Remonstrance of the S. & U. R. R. Co., against a bill to reduce their fare. 1851. (See Af-378.)
- TENNESSEE.** Tennessee railroads: Address to the Joint Railroad Committee of the 44th General Assembly of Tennessee, by the President, Nashville, Chattanooga & St. Louis Ry., Feb. 18th, 1885. J. W. Thomas. Note: Address relates to a bill before the General Assembly regulating railroad rates. Nashville, 1885. 13 pp., 9 x 6, b. p. Ab-76, p. 567.
- TERRE HAUTE, ALTON & ST. LOUIS R. R.** Report of W. D. Griswold, Agent of the Trustees and General Superintendent of the railroad, to the Trustees from Dec. 12th, 1859, to Dec. 31st, 1860. 1861. (See Ag-461.)
- TOLEDO, PEORIA & WARSAW RY.** Report of the Committee of Stockholders showing its present condition and future prospects together with the financial affairs of the Company. N. Y., no date. 19 pp., 9 x 6, b. p. Ag-305, p. 565.
- 397 **TOLEDO, PEORIA & WESTERN RY.** Testimony taken by the Commission. Illinois-Railroad and Warehouse Commission. Note: Relates to accident on the T., P. & W. Ry. no place, 1887. 227 pp., pl., 9 x 6, b. p.
- TURKEY.** Forms of contracts for railroads in general, and if necessary, constructing canals, ports and other public works in the Ottoman Empire. Department of Public Works. 1883. (See Ac-99.)
- UNION PACIFIC R. R.** Guide to the U. P. R. R. lands. Note: Relates to the disposal of the lands given to the U. P. R. R. Co. by the Government of the United States. Omaha, 1870. 44 pp., 9 x 6, b. p. Af-305, p. 103.
- In the Circuit Court of the United States, for the District of Connecticut; the United States of America, by George Henry Williams, their Attorney-General, vs. the U. P. R. R. Co., Henry Ingalls, Joseph Richardson and others: Opinion of the Court. Hunt. Note: Case relates to the issue, by the U. P. R. R. Co., of capital stock which has not been paid for in full by the recipient. no place, 1873. 19 pp., 9 x 6, b. p. no title-page. Af-301, p. 401.
- Memorandum in regard to the equity in the case between the Government and the U. P. R. R. made at the request of some of the large holders of the bonds of said road, who are not officers thereof. Edward Atkinson. no place, 1871. 22 pp., 9 x 6, b. p. no title-page. Af-305, p. 57.

Ae—(Continued).

- Obligations of the Pacific railroad companies to the Government, relating to the bonds issued by the United States in aid of the construction of the U. P. R. R. and its branches, considered and submitted to the Committee on the Judiciary of the Senate of the United States. E. H. Nichols. Wash., 1871. 24 pp., 9 x 6, b. p. Af-306, p. 1.
- Pacific railroad legislation, 1862-1885. (See Aj-57.)
- Report. U. S.-House Committee on Pacific Railroads. 1896. (See Ai-71.)
- Suggestions submitted to the Attorney-General of the United States on behalf of the U. P. R. R. Co., upon the question of the obligation of the company to pay the interest on the bonds issued in aid of the construction of its railroad. E. E. Hoar. no place, 1870. 4 pp., 10 x 7, b. p. no title-page. Af-306, p. 25.
- Views of the Minority. U. S.-House Committee on Pacific Railroads. 1896. (See Af-437.)
- Views of the Minority. U. S.-Senate Committee on Pacific Railroads. 1896. (See Af-435.)
- 110 **UNION PACIFIC RY.** Answer to the specifications of the Minority Commissioner of the United States Pacific Railway Commission. Bost., 1885. 119 pp., 9 x 6, pap.
- Plan and agreement for the reorganization of the U. P. Ry. Co. including its Kansas Pacific lines, dated Oct. 15th, 1895. (See Af-423.)
- Report of the Commission, and of the Minority Commissioner, appointed under the Act of Congress approved Mar. 3d, 1887, entitled "An act authorizing an investigation of the books, accounts and methods of railroads which have received aid from the United States, and for other purposes." U. S.-Pacific Railway Commission. 1887. (See Ai-69.)
- UNITED STATES.** Address delivered before the Illinois State Bar Association at Springfield, Ill., Jan 15th, 1890, on some of the practical workings of the Interstate Commerce Law. John McNulta. no place, no date. 24 pp., 9 x 6, b. p. Aa-81, p. 745.
- 325 —American railroads as investments: A handbook for investors in American railroad securities. S. F. Van Oss. N. Y., 1893. 15 + 817 + 7 pp., maps, tab., 9 x 6, cl
- Anti-railway legislation. O. D. Ashley. N. Y., 1889. 24 pp., 9 x 6, b. p. Aa-85, p. 1.
- Argument and decision of the arbitrators in the matter of establishing meridian rates in the territory west of Chicago. Indianapolis and Cincinnati. Central Passenger Committee. no place, no date. 10 pp., 9 x 6, b. p. Af-305, p. 11.
- 256 —Argument before the Committee on Commerce of the Senate of the United States, on the Reagan Bill, for the regulation of interstate-commerce, Washington, Feb. 11th, 1879. N. Y., 1879. 28 pp., 9 x 6, b. p.
- Arguments and statements before the (House) Committee on Commerce in relation to certain bills referred to that Committee proposing Congressional regulation of interstate commerce. no date. (See Zd-91.)
- Before the Interstate Commerce Commission: Arguments of Counsel at Washington, D. C., Dec. 15th and 16th, 1897. New York Produce Exchange vs. Baltimore & Ohio R. R. Co. and others, and Philadelphia Board of Trade and others. Note: Oral argument on inland freight differentials on eastbound grain, flour and provisions. 1898. (See Af-290.)
- Before the Senate Committee on Inter-State Commerce: Remarks on behalf of the Adams Express Co. on the proposed amendments to the Act to Regulate Commerce, Washington, Feb. 1st, 1888. C. A. Seward. N. Y., 1888. 47 pp., 9 x 6, b. p. Af-298, p. 363.
- Biographical directory of the railway officials of America; 1887. (See Aa-99.)
- Book of instructions for the guidance of carriers in making annual reports to the Interstate Commerce Commission, as required by Section 20 of the Act to Regulate Commerce. Wash., 1888. 26 pp., 9 x 6, b. p. Aa-81, p. 659.
- 231 —Changes in the rates of charge for railway and other transportation services; prepared by H. T. Newcomb. Department of Agriculture. (Miscellaneous Ser., Bulletin No. 15.) Wash., 1898. 80 pp., 9 x 6, pap.
- Circular letter on the subject of annual reports for carriers, June 1st, 1888. Interstate Commerce Commission. no place, 1888. 6 pp., 9 x 6, b. p. Aa-85, p. 69.
- Classification of operating expenses as prescribed by the Interstate Commerce Commission in accordance with Section 20 of the Act to Regulate Commerce. Wash., 1889. 27 pp., tab., 9 x 6, b. p. Aa-81, p. 599.
- Conference report on the disagreeing votes of the two Houses on the amendment of the House to the bill "to regulate commerce." (49th Cong., 2d Sess. Senate misc. doc. No. 12.) no place, 1886. 10 pp., 9 x 6, b. p. Af-298, p. 27.
- Same. (49th Cong., 2d Sess. House misc. doc. No. 75.) no place, 1887. 13 pp., 9 x 6, b. p. no title-page. Ah-76, p. 383.
- Danger and wrong of existing legislation concerning railways; a review of its results; government ownership of railways advocated, instead of the present public policy. T. B. Blackstone. Chic., 1890. 39 pp., 9 x 6, b. p. Aa-85, p. 309.

Ae—(Continued).

- Earning power of railroads, with tables showing facts as to earnings, capitalization, mileage, etc., of one hundred railroads in the United States and Canada. F. W. Mundy. 1902. (See Aa-104.)
- Growth and effect of railway consolidation. G. L. Lansing. no place, 1883. pp. 577-589, 9 x 6, b. p. no title-page. Ab-455, p. 217.
- In the matter of underbidding: Opinion and recommendations of the Commission. Interstate Commerce Commission. no place, no date. 26 pp., 9 x 6, b. p. Af-298, p. 1.
- Inter-state commerce. N. Y., 1887. 12 pp., 9 x 6, b. p. no title-page. Af-298, p. 108.
- Inter-State Commerce Act of Feb. 4th, 1887, with a summary of its provisions. F. M. Leonard. Phil., 1887. 15 pp., 9 x 6, b. p. Af-298, p. 237.
- Inter-State Commerce Act: Review of some of its possible applications to freight transportation, as they appeared prior to Apr. 5th, 1887. F. J. Firth. no place, no date. 38 pp., 9 x 6, b. p. Af-298, p. 115.
- 399 —Interstate commerce: Argument before the Committee on Commerce of the United States House of Representatives, Jan. 26th, 1884. Albert Fink. Wash., 1884. 32 pp., 9 x 6, b. p.
- Inter-State Commerce Bill. H. V. Poor. Note: A discussion of transportation in the United States with reference to pending bill. N. Y., no date. 10 pp., 9 x 6, b. p. Ah-76, p. 465.
- Interstate commerce: Remarks in the Senate of the United States, Jan., 1887. S. M. Cullom. no place, 1887. 24 pp., 9 x 6, b. p. no title-page. Ah-76, p. 411.
- Interstate commerce: Speech in the House of Representatives, Dec. 8th, 1884. W. W. Rice. Wash., 1885. 15 pp., 9 x 6, b. p. Ah-76, p. 435.
- Interstate commerce: Speech in the Senate of the United States, Jan. 16th, 1885. C. H. Van Wyck. Wash., 1885. 14 pp., 9 x 6, b. p. Ah-76, p. 451.
- 805 —Inter-state commerce: The railway and express system. H. C. Lord. no place, 1380. 16 pp., 9 x 6, b. p. no title-page.
- Manual of railroads of the United States; 1879, 1900-1902. H. V. and H. W. Poor, pub. (See Aa-51.)
- Manual of the coupon ticket points and coupon ticket agents in the United States and Canadas alphabetically arranged for the use of general passenger and ticket agents; also "index" to coupon ticket points, arranged for the use of ticket sellers of any form of coupon tickets; 1885. Chic., 1885. 1 v., 9 x 6, b. p. Aa-24, p. 261.
- National consolidation of the railways of the United States. G. H. Lewis. 1898. (See Aa-92.)
- 393 —New guide for travelers through the United States of America; containing all the railroad, state and steamboat routes with the distances from place to place. J. C. Smith. N. Y., 1846. 79 pp., 6 x 4, cl.
- 6 —Notes on railroad accidents. C. F. Adams, Jr. N. Y., 1879. 6 + 280 pp., 8 x 5, cl.
- Notes on railway management. W. K. Ackerman. no place, no date. pp. 531-546, 9 x 6, b. p. no title-page. Ah-76, p. 367.
- Official railway manual of the railroads of North America, showing their financial condition, mileage, cost, earnings, expenses and organization; together with a list of the railroads of the world; 1870-71. J. H. Lyles, comp. (See Aa-90.)
- 396 —On the increased efficiency of railways for the transportation of freight. W. P. Shinn. (Transactions, Am. Soc. C. E., Nov., 1882.) N. Y., 1882. pp. 366-396, 9 x 6, b. p. no title-page.
- Our railroad system. T. J. Carter. Springfield, Ill., 1873. 42 pp., 9 x 6, b. p. no title-page. Ah-77, p. 277.
- Payment of commissions: Extract from the Second Annual Report of the Interstate Commerce Commission, Dec. 1st, 1888. no place, 1888. 12 pp., 9 x 6, b. p. Aa-85, p. 57.
- 42 —Proceedings of a convention of the presidents, superintendents and other officials of Southern railways, for the promotion of immigration to the South, held in the City of Atlanta, Jan. 4th, 1869. Note: Convention recommended the reduction of rates. Atlanta, 1869. 15 pp., 8 x 5, pap.
- Proceedings of a meeting of Railway Accounting Officers held at Washington, D. C., Mar. 28th, 1888, to consider the proposed form of annual report to be made by railroad companies to the Inter-State Commerce Commission. Phil., 1888. 32 pp., 9 x 6, b. p. Af-298, p. 203.
- 15 —Proceedings of the Advisory Commission appointed by the trunk lines, to consider the question of differential rates between seaboard cities and common points in the West; sessions in Philadelphia. N. Y., 1882. pp. 41-71, 9 x 6, pap.
- Proceedings of the American Association of General Passenger and Ticket Agents at the annual convention; 1898. (See Sa3-172.1.)

Ae—(Continued).

- Proceedings of the meeting of Traveling Accountants held at Indianapolis, Ind., Feb. 9th and 10th, 1886. Note: Meeting called by Pennsylvania R. R. for purpose of revising credit list. Pittsburg, 1886. 10 pp., 9 x 6, b. p. Af-305, p. 1.
- Proceedings of the National Convention of Railroad Commissioners held at the office of the Interstate Commerce Commission, Washington, D. C.; 1899-1902. (See Aa-78.)
- 395 —Railroad local passenger traffic: Tariff, conditions and regulations, with rules for construction of proportionate mileage tables for constant and occasional travel; and some remarks on the development of local passenger traffic. F. J. Lee. N. Y., 1879. 88 pp., tab., 9 x 6, b. p.
- 435 —Railroad poolings and discriminations; information in answer to questions propounded by the Chief of the Bureau of Statistics, Treasury Department of the United States, 1879. Simon Sterne. no place, no date. pp. 19-28, 9 x 6, cl.
- Railroad problem in the United States. George Hies. no place, 1883. pp. 280-303, 9 x 6, b. p. no title-page. Ab-455, p. 231.
- Railroads of the United States; their history and statistics, comprising the progress and present condition of the various lines with their earnings and expenses, and showing their wonderful power in developing the resources of the country; to which are added a synopsis of the railroad laws of the United States, and an article on the comparative merits of iron and steel rails. H. M. Flint. 1868. (See Aj-6.)
- 118 —Railway corporations and the people: A paper read before "The Round Table," St. Louis, Mar. 11th, 1898. O. D. Ashley. N. Y., 1898. 27 pp., 9 x 6, pap.
- Railway influence in the Land Office. G. W. Julian. no place, no date. pp. 237-256, 9 x 6, b. p. no title-page. Ab-455, p. 247.
- Railway legislation. F. S. Bond. no place, no date. pp. 505-514, 9 x 6, b. p. no title-page. Ah-76, p. 357.
- 300 —Railway problems: An inquiry into the economic conditions of railway working in different countries. J. S. Jeans. Lond., 1887. 28 + 560 pp., tab., 9 x 6, cl.
- 66 —Railway tariffs and the interstate commerce law. R. A. Seligman. Bost., 1887. pp. 223-413, 10 x 6, pap.
- Railways and the Republic. J. F. Hudson. 1886. (See Aa-93.)
- 392 —Recent railroad failures and their lessons. Simon Sterne. no place, no date. 20 pp., 9 x 6, cl.
- Recommendations of the Committee appointed Oct. 7th, 1880, at Columbus, for the formation of a freight association for the States of Ohio, Indiana and Michigan. J. M. Osborn. Toledo, 1880. 8 pp., 9 x 6, b. p. Af-304, p. 371.
- Regulation of interstate commerce: Speech delivered in the Senate of the United States, Dec. 21st, 1886. J. F. Wilson. Wash., 1886. 13 pp., 9 x 6, b. p. Ah-76, p. 397.
- 400 —Relation of the railroads of the United States to the people and the commercial and financial interests of the country; the elements that determine the rates that shall be charged. M. M. Kirkman. Chic., 1885. 54 pp., 9 x 6, b. p.
- Remedy for railroad abuses. I. L. Rice. no place, no date. pp. 134-148, 9 x 6, b. p. Af-304, p. 452.
- Report in relation to the comparative merits of canals and railroads. House Committee on Internal Improvements. 1832. (See Ai-87.)
- Report of Committee appointed at Chicago, Ill., Apr. 2d, 1885, to devise means to increase rates between interior points in the territory of the Central Traffic Association and the seaboard. Central Traffic Association. no place, 1885. 11 pp., 9 x 6, b. p. Aa-87, p. 79.
- Report of proceedings of the Railway Clearing-House Association; 1882. Bost., 1882. 1 v., 9 x 6, b. p. Af-304, p. 137.
- Report of the Bureau of Transportation to the Director-General. Jan. 31st, 1877. Centennial Commission. Phil., 1877. 132 pp., il., tab., 9 x 6, b. p. Aa-82, p. 625.
- Report of the Chairman to General Managers of all railways in the territory of the Association, with suggestions touching the increase of the efficiency of the same. Central Traffic Association. Chic., 1888. 11 pp., 9 x 6, b. p. no title-page. Zj-193, p. 445.
- Report of the Commission, and of the Minority Commissioner, appointed under the Act of Congress approved Mar. 3d, 1887, entitled "An act authorizing an investigation of the books, accounts and methods of railroads which have received aid from the United States, and for other purposes." U. S.-Pacific Railway Commission. 1887. (See Ai-69.)
- 342 —Report of the General Superintendent of Railway Mail Service, for the year ending June 30th, 1888. Wash., 1888. 1 v., 9 x 6, pap.

Ae—(Continued).

- Report of the proceedings of the meeting of the Committee appointed by the General Freight Agents at Indianapolis, Jan. 13th, 1881, held at Cleveland, Ohio, Jan. 20th, 1881. Middle and Western States Railroad Freight Association. Toledo, 1881. 7 pp., 9 x 6, b. p. Af-304, p. 379.
- 396 —Report on differential rates by railroads between the West and the Seaboard. A. G. Thurman, E. B. Washburne and T. M. Cooley. N. Y., 1882. 43 pp., 9 x 6, b. p.
- Report on the subject of railway mail transportation, Dec. 14th, 1877. Special Postal Commission. (45th Cong., 2d Sess. Senate misc. doc. No. 14, Pt. 2.) Wash., 1878. 62 pp., tab., 9 x 6, b. p. Aa-82, p. 443.
- Report to the Board upon the matter of the strike of the Brotherhoods of Locomotive Engineers and Firemen of the Burlington & Missouri River R. R. in Nebraska, by O. P. Mason, Secretary. Nebraska-Board of Transportation. Lincoln, 1888. 19 pp., 9 x 6, b. p. Aa-85, p. 75.
- Review of the Interstate Commerce Bill as reported by the Conference Committee at Washington, Dec., 1886. G. R. Blanchard. Chic., 1886. 15 pp., tab., 9 x 6, b. p. Af-298, p. 65.
- Safety of life on railroads: Speech in the House of Representatives, Feb. 7th, 1873. Andrew King. Note: On "A bill to increase the safety of human life upon railroads." Wash., 1873. 13 pp., 6 tab., 9 x 6, b. p. Ah-77, p. 9.
- Shall railway pooling be permitted? G. R. Blanchard. no place, no date. 14 pp., 9 x 6, b. p. no title-page. Aa-85, p. 49.
- System of time standards, illustrated with map. C. F. Dowd. no place, 1881. unpag., map, 9 x 6, b. p. Ah-76, p. 335.
- 256 —Testimony before the United States Senate Committee on Labor and Education, Sept. 17th, 1883. Albert Fink. Note: Relates to railroad combinations and tariffs. N. Y., 1883. 62 pp., 9 x 6, b. p.
- The American railway; its construction, development, management, and appliances; with an introd. by Thomas M. Cooley. T. C. Clarke and others. 1889. (See Ae-230.)
- The people and the railways: A popular discussion of the railway problem in the United States, by way of answer to "The railways and the Republic," by James F. Hudson; and with an examination of the Interstate Commerce law. Appleton Morgan. 1888. (See Aa-94.)
- The proposed railway trust. C. F. Beach, Jr. 1889. (See Aa-70.)
- The railroad and the farmer, Nos. one and two; and The standard of adequate railroad service. Edward Atkinson. N. Y., 1888. various pagings, tab., 9 x 6, b. p. Ab-455, p. 93.
- The railway problem. A. B. Stickney. 1891. (See Aa-95.)
- Why pooling should be legalized: A letter addressed to the Hon. Shelby M. Cullom. G. R. Blanchard. no place, 1890. 26 pp., 9 x 6, b. p. Aa-79, p. 241.
- 378 **UTICA, ITHACA & ELMIRA R. R.** By-laws adopted June 16th, 1877. N. Y., 1877. 7 pp., 7 x 4, pap.
- 381 **VALLEY RY. OF OHIO.** Plan and agreement of reorganization, Oct. 9th, 1894. N. Y., 1894. 14 pp., 10 x 7, pap.
- 381a —Same; Feb. 28th, 1895. no place, 1895. 16 pp., 9 x 6, pap.
- WABASH R. R.** President Ashley's reply to the report of Mr. Hermann Landau, of London. N. Y., 1890. 26 pp., 9 x 6, b. p. Aa-85, p. 349.
- WABASH, ST. LOUIS & PACIFIC RY.** Reorganization plan and agreement, Nov. 21st, 1887. no place, 1887. 15 pp., 9 x 6, b. p. Af-305, p. 531.
- 384 —Reorganization plan, Aug. 6th, 1884. N. Y., 1884. 14 pp., 9 x 6, pap.
- Statement by the Bondholders' Committee; regarding the reorganization of the railroad. C. J. Lawrence, H. K. McHarg and T. B. Atkins. no place, 1887. 12 pp., 9 x 6, b. p. Af-305, p. 553.
- 382 —Statement, Dec. 31st, 1879. N. Y., 1880. 23 pp., 9 x 6, pap.
- WESTERN R. R.** Communication by the Directors to the Stockholders of the Boston & Worcester R. R. Corporation in relation to the late award of Commissioners and the strictures of the President of the W. R. R. Corporation thereon. Note: Relates to the transportation contract made by the two companies. 1880. (See Ag-185.)
- Proceedings, Jan. 27th, 1841; including an address to the people of the Commonwealth of Massachusetts on the application for an additional loan of the State credit. 1841. (See Ag-343.)
- Proceedings of the annual meeting held Mar. 12th, 1840; including the report of the Committee of Investigation appointed by the Stockholders. 1840. (See Ag-344.)
- 383 **WHEELING & LAKE ERIE RY.** Report of the Committee appointed by the Stockholders to investigate the affairs of the company. no place, 1897. 10 pp., 9 x 7, pap. no title-page.

Ae—(Continued).

WISCONSIN. Wisconsin railway legislation. D. A. Wells and others. Note: Relates to an appeal of the railroad companies to the United States Supreme Court against the assumption by the Legislature of the right to confiscate property without compensation. 1874. (See *Af*-461.)

YAZOO & MISSISSIPPI VALLEY R. R. Report of annual inspection of track, showing comparative standing of each section; 1898-1900. Illinois Central R. R. Co. and Y. & M. V. R. R. Co. (See *Ag*-477.)

RAILROADS—LEGAL DOCUMENTS.**Af**

- 315 **ALABAMA & CHATTANOOGA R. R.** Decree of Justice Woods for sale of property covered by the first mortgage; Daniel N. Stanton, Francis B. Loomis and John C. Stanton, Trustees of the first mortgage bondholders of the A. & C. R. R. Co., Complainants, against the A. & C. R. R. Co., Lewis Rice, A. C. Lippett, Daniel N. Stanton, Trustees, &c., and Charles B. Wallace and others, Defendants; in equity. U. S.-Circuit Court, Southern District of Alabama. no place, 1874. 167 pp., 9 x 6, pap. no title-page.
- 314 — In the Circuit Court of the United States for the Fifth Judicial Circuit and Southern District of Alabama: Seth Adams, *et als.*, Complainants, *vs.* the A. & C. R. R., *et als.*, Defendants; in equity: Report of Special Master Commissioner. no place, 1874. 58 pp., 9 x 6, pap.
- 318 **ALBANY & SUSQUEHANNA R. R.** Court of Appeals; the people, etc., against the A. & S. R. R. Co., and others: The suits and special proceedings shown on the trial to have been brought previous to the election, contrasted. no place, 1869. 185 pp., 10 x 6, pap.
- 316 — Inquiry into the A. & S. R. R. litigations of 1869, and Mr. David Dudley Field's connection therewith. G. T. Curtis. N. Y., 1871. 125 pp., 9 x 6, pap.
- 317 — Supreme Court; the people of the State of New York, against the A. & S. R. R. Co., and others; opinion, with a brief running commentary by Field and Shearman. E. D. Smith. N. Y., 1869. 65 pp., 11 x 7, pap.
- 323 **ALLEGHENY VALLEY RY.** Mortgage of the A. V. Ry. Co. to the Fidelity Title & Trust Co., of the City of Pittsburgh, Trustee, dated Mar. 1st, 1892. Phil., 1892. 19 pp., 9 x 6, pap.
- 321 **ALTON & MT. CARMEL R. R.** Charters of the A. & Mt. C. and the Mt. Carmel and New Albany R. R. Companies. Alton, 1851. 35 pp., 9 x 6, pap.
- 321 **ALTON, MT. CARMEL & NEW ALBANY R. R.** Charters of the Alton and Mt. Carmel and the Mt. Carmel and New Albany R. R. Companies. Note: Contains acts, etc., relating to the organization of the A., Mt. C. & N. A. R. R. Co. Alton, 1851. 35 pp., 9 x 6, pap.
- 320 **ATCHISON, COLORADO & PACIFIC R. R.** Bondholders' agreement, dated Feb. 20th, 1897. no place, 1897. 8 pp., 11 x 8, pap.
- 319 **ATCHISON, JEWELL COUNTY & WESTERN R. R.** Bondholders' agreement, dated Feb. 20th, 1897. no place, 1897. 8 pp., 11 x 8, pap.
- ATCHISON, TOPEKA & SANTA FE R. R.** Kansas railroads, and the old Board of Railroad Commissioners. Note: Relates to the regulation of rates of charges for the transportation of freight and merchandise on the A., T. & S. F. and other railroads in the State. 1884. (See *Ae*-346.)
- 322 **ATLANTIC & GREAT WESTERN R. R.** Contract for the hire of rolling stock. United States Rolling Stock Co. and A. & G. W. R. R. Co. N. Y., 1874. 18 pp., 9 x 6, pap.
- 408 **ATLANTIC & GREAT WESTERN RY.** Lease and contract of the Catawissa R. R. Co. to the Western Central R. R. Co. of Pennsylvania and the A. & G. W. Ry. Co. of New York, Pennsylvania and Ohio, executed 1st Nov., 1865. Phil., 1865. 20 pp., 9 x 6, pap.
- 471 — Philadelphia & Erie R. R. Co., *et al.*, *vs.* the Catawissa R. R. Co., *et al.* and Andrew Scott *vs.* the A. & G. W. Ry. Co., *et al.*; in the Supreme Court of Pennsylvania, Eastern District, Nos. 28 and 40, Jan. Term, 1866: Arguments for Defendants. G. W. Biddle and others. Note: Case relates to the lease of the C. R. R. to the A. & G. W. Ry. Co. Phil., 1866. 126 + 37 pp., 9 x 6, pap.
- 473 — Philadelphia & Erie R. R. Co., *et al.*, *vs.* the Catawissa R. R. Co., *et al.*; Andrew Scott *vs.* the A. & G. W. Ry. Co., *et al.*; in the Supreme Court of Penn'a., Eastern District, Jan. Term, 1866: Opinion of Court, and decree. Woodward. Note: Case relates to the lease of the Catawissa R. R. to the A. & G. W. Ry. Co. Phil., 1866. 12 pp., 9 x 6, pap.
- 472 — Report of the Examiner, appointed Mar. 28th, 1866, to take testimony in the cases of the Philadelphia & Erie R. R. Co., *et al.*, *vs.* the Catawissa R. R. Co., *et al.* and Andrew Scott *vs.* the A. & G. W. Ry. Co., *et al.*; in the Supreme Court of Pennsylvania, Eastern District, Nos. 28 and 40, Jan. Term, 1866. George Bull. Note: Report relates to rates on freight. Phil., 1866. 95 pp., 9 x 6, pap.

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- ATLANTIC & PACIFIC R. R.** In the Circuit Court of the United States, Eastern District of Missouri; George E. Ketchum, *et al.*, vs. the Pacific R. R., *et al.*; in equity: Petition for relief. F. A. Botts. Note: Litigation relates to the lease of the Pacific R. R. by the A. & P. R. R. Co. Chic., 1876. 17 pp., 9 x 6, b. p. Zj-195, p. 195.
- In the Supreme Court of the United States, Oct. Term, 1876, *ex parte* Robert L. Cutting, Jr., and others, Petitioners, against the Judges of the Circuit Court of the United States for the Eastern District of Missouri: Petition for mandamus: Statement and argument for Petitioners. Henry Crawford. Note: Litigation relates to the lease of the Pacific R. R. by the A. & P. R. R. Co. Chic., 1876. 48 pp., 9 x 6, b. p. Zj-195, p. 57.
- 304 **BALTIMORE & OHIO R. R.** Articles of agreement between the Central Ohio R. R. Co. and the B. & O. R. R. Co., Nov. 21st, 1866. no place, 1866. pp. 59-66, 9 x 6, b. p.
- 290 —Before the Interstate Commerce Commission: Arguments of Counsel at Washington, D. C., Dec. 15th and 16th, 1897. New York Produce Exchange vs. B. & O. R. R. Co. and others, and Philadelphia Board of Trade and others. Note: Oral argument on inland freight differentials on eastbound grain, flour and provisions. N. Y., 1898. 172 pp., 10 x 8, pap.
- 369 —Laws and ordinances relating to the B. & O. R. R. Co. Balt., 1894. 124 + 3 pp., 9 x 6, bds.
- Reorganization; plan and agreement, dated June 22d, 1898. (See Ae-231.)
- Report and documents submitted by the Committee appointed to confer with the authorities of the City of Wheeling, respecting the late law of Virginia, granting the right of way to the company through that State, passed 6th Mar., 1847. (See Ab-354.)
- 367 **BALTIMORE & PORT DEPOSIT R. R.** Act to incorporate the B. & P. D. R. R. Co. Maryland-General Assembly. Balt., 1832. 15 pp., 9 x 6, pap.
- 385 —Laws incorporating the Philadelphia, Wilmington & Baltimore R. R. Co. of the State of Pennsylvania; the Wilmington & Susquehanna R. R. Co. of the State of Delaware; the Delaware & Maryland R. R. Co. of the State of Maryland; the B. & P. D. R. R. Co. of the State of Maryland; as enacted by the different Legislatures of those States; together with the articles of union, between the Wilmington & Susquehanna and the Delaware & Maryland R. R. Companies. Phil., 1836. 60 pp., 9 x 6, pap.
- 368 **BALTIMORE & SUSQUEHANNA R. R.** Act to incorporate the B. & S. R. R. Co., passed December session, 1827. Maryland-General Assembly. Balt., 1828. 16 pp., 9 x 5, bds.
- BALTIMORE, CINCINNATI & WESTERN CENTRAL RY.** Certificate of incorporation. Union Construction Co. Note: Company formed for the purpose of constructing and equipping the line of the B., C. & W. C. Ry. no place, 1881. 9 pp., 9 x 6, b. p. Ag-306, p. 79.
- 348 **BAY DE NOUETTE & MARQUETTE R. R.** Before the Hon. Willis Drummond, Commissioner of the General Land Office: Argument for the B. de N. & M. R. R. Co. and the Marquette & Ontonagon R. R. Co., Mar., 1872. H. R. Selden and J. J. Storrow. Bost., 1872. 5 + 66 pp., 11 x 7, pap.
- 371 **BELOIT & MADISON R. R.** Leases of Chicago, Iowa & Nebraska R. R., Cedar Rapids & Missouri River R. R. Co., B. & M. R. R. Co., to the Galena & Chicago Union R. R. Co. no place, 1862. 72 pp., 9 x 6, pap.
- 296 **BOSTON & NEW YORK AIR LINE R. R.** Arbitration. New York. New Haven & Hartford R. R. Co. and B. & N. Y. A. L. R. R. Co. Note: Proceedings of meeting of arbitrators to determine the proportionate share of gross earnings which each company ought to receive. N. Y., 1880. 183 pp., 9 x 6, b. p.
- Copy of agreement made between the B. & N. Y. A. L. R. R. Co. and the New York, New Haven & Hartford R. R. Co., Mar. 21st, 1879. no place, 1879. 10 pp., 9 x 6, b. p. Aa-86, p. 507.
- 296 —First mortgage. no place, no date. 15 pp., 9 x 6, b. p. no title-page.
- 294 —In the matter of the petition of Marshall Jewell and others for a special railroad charter: Statement presented to the Committee on Railroads, in behalf of the New York & New England R. R. Co. and the B. & N. Y. A. L. R. R. Co. no place, no date. 6 pp., 9 x 6, b. p. no title-page.
- 304 —Lease, B. & N. Y. A. L. R. R. Co. to New York, New Haven & Hartford R. R. Co., dated Aug., 1882. no place, 1882. 8 pp., 9 x 6, b. p. no title-page.
- 294 —Supreme Court of Errors, First Judicial District, Middlesex County, May Term, 1882: B. & N. Y. A. L. R. R. Co. vs. O. Vincent Coffin *et al.*; reservation: Brief for Plaintiff. S. E. Baldwin. Note: Case relates to the conveyance to the Plaintiff of the title to certain lands held in trust by the Defendant. no place, 1882. 8 pp., 9 x 6, b. p. no title-page.
- 294 —Supreme Court of Errors, Middlesex County: Summons for Defendant to appear before the Superior Court: copy of complaint, etc. B. & N. Y. A. L. R. R. Co. vs. O. V. Coffin. Note: Case relates to the conveyance to the company of titles to real estate held in trust by Defendant. no place, 1882. 60 pp., 9 x 6, b. p.

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- BOSTON, HARTFORD & ERIE R. R.** Circuit Court of the United States, District of Massachusetts; in equity; Charles S. Bradley *et al.* vs. Henry N. Farwell *et al.*: Opinion of the Court, May Term, 1876. Clifford. Note: Relates to the insolvency of the B., H. & E. R. R. Co. no place, 1876. 9 pp., 9 x 6, b. p. no title-page. Zj-196, p. 739.
- Circuit Court of the United States, District of Massachusetts; in equity; George M. Barnard *et al.*, Assignees of B., H. & E. R. R. Co. v. Henry N. Farwell *et al.*: Opinion of the Court. Shepley. Bost., 1874. 10 pp., 9 x 6, b. p. Zj-185, p. 749.
- 366 —Mortgage of the B., H. & E. R. R. Co., to R. H. Berdell, D. S. Gregory and J. C. B. Davis, Mar. 19th, 1886. Bost., 1887. 16 pp., 9 x 6, pap.
- 485 **BUFFALO, ROCHESTER & PITTSBURGH RY.** Decree of the Court requiring the removal of infringing New York air brakes from the cars of the B., R. & P. Ry., with accompanying statement. Westinghouse Air Brake Co. N. Y., 1898. 7 pp., 11 x 7, pap.
- 488 **CALIFORNIA.** Act amendatory of and supplement to an act entitled "An Act to provide for the appointment of Commissioners of Transportation, to fix the maximum charges for freights and fares, and to prevent extortion and discrimination on railroads in this State," approved Apr. 3d, 1876. no place, 1878. 32 pp., 11 x 8, pap.
- 490 —Act for the prevention of unjust discrimination and for the regulation of freights and fares on railroads in the State. no place, 1878. 6 pp., 11 x 8, pap.
- 499 —Act in relation to railroads. no place, 1878. 4 pp., 11 x 8, pap.
- 434 **CAMDEN & AMBOY R. R. & TRANSPORTATION CO.** State of New Jersey, in the Court of Errors and Appeals in the last resort in all causes; between the Raritan & Delaware Bay R. R. Co. and the Camden & Atlantic R. R. Co., Appellants, and the Delaware & Raritan Canal and C. & A. R. R. & Transportation Companies, Respondents: Appeal from decree in Chancery. Note: Case relates to the right of transportation of freight and passengers between New York and Philadelphia in the State of New Jersey by the D. & R. Canal Co. and C. & A. R. R. & Transportation Co. N. Y., 1886. 390 pp., 10 x 6, pap.
- 434 **CAMDEN & ATLANTIC R. R.** State of New Jersey, in the Court of Errors and Appeals in the last resort in all causes; between the Raritan & Delaware Bay R. R. Co. and the C. & A. R. R. Co., Appellants, and the Delaware & Raritan Canal and Camden & Amboy R. R. & Transportation Companies, Respondents: Appeal from decree in Chancery. Note: Case relates to the right of transportation of freight and passengers between New York and Philadelphia in the State of New Jersey by the D. & R. Canal Co. and C. & A. R. R. & Transportation Co. N. Y., 1886. 390 pp., 10 x 6, pap.
- 468 **CANADA SOUTHERN RY.** Agreement Dec., 1882. Michigan Central R. R. Co. and C. S. Ry. Co. N. Y., 1882. 19 pp., 9 x 6, pap.
- United States District Court, Northern District of New York: Proofs, pleadings, exhibits and statutes. C. S. Ry. Co. vs. International Bridge Co. and Grand Trunk Ry. Co. of Canada. Note: Case relates to amount of compensation to be paid by railway companies for use of the International Bridge, Buffalo, N. Y., and includes a description of its construction and cost. 1881. (See Fh-119.)
- 408 **CATAWISSA R. R.** Lease and contract of the C. R. R. Co. to the Western Central R. R. Co. of Pennsylvania and the Atlantic & Great Western Ry. Co. of New York, Pennsylvania and Ohio, executed 1st Nov., 1865. Phil., 1865. 20 pp., 9 x 6, pap.
- 471 —Philadelphia & Erie R. R. Co., *et al.*, vs. the C. R. R. Co., *et al.* and Andrew Scott vs. the Atlantic & Gt. West. Ry. Co., *et al.*; in the Supreme Court of Pennsylvania, Eastern District, Nos. 28 and 40, Jan. Term, 1866: Arguments for Defendants. G. W. Biddle and others. Note: Case relates to the lease of the C. R. R. to the A. & G. W. Ry. Co. Phil., 1866. 126 + 37 pp., 9 x 6, pap.
- 473 —Philadelphia & Erie R. R. Co., *et al.* vs. the C. R. R. Co., *et al.*; Andrew Scott vs. the Atlantic & Gt. West. Ry. Co., *et al.*; in the Supreme Court of Penn'a, Eastern District, Jan. Term, 1866: Opinion of Court, and decree. Woodward. Note: Case relates to the lease of the C. R. R. to the Atlantic & Great Western Ry. Co. Phil., 1866. 12 pp., 9 x 6, pap.
- 472 —Report of the Examiner, appointed Mar. 28th, 1866, to take testimony in the cases of the Philadelphia & Erie R. R. Co., *et al.*, vs. the C. R. R. Co., *et al.* and Andrew Scott vs. the Atlantic & Gt. West. Ry. Co., *et al.*; in the Supreme Court of Pennsylvania, Eastern District, Nos. 28 and 40, Jan. Term, 1866. George Bull. Note: Report relates to rates on freight. Phil., 1866. 96 pp., 9 x 6, pap.
- 405 **CATAWISSA, WILLIAMSPORT & ERIE R. R.** Mortgages. Phil., 1869. 66 pp., 9 x 6, pap.
- 407 —Supreme Court for the Eastern District of Pennsylvania, in equity: Statement and brief on behalf of Complainants and opinion of the Court. E. S. Sandford and J. Anspach, Jr., vs. C. W. & E. R. R. Co., *et al.* Note: Relates to the alleged right of a railroad to make a contract with an express company giving it the exclusive right to the use of the railroad for express purposes. Phil., 1866. 27 pp., 9 x 6, pap.

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- 406 — *Trotter vs. C., W. & E. R. R. Co.*: Bill; in equity, Supreme Court, Eastern District of Pennsylvania. J. F. Johnston. Note: Suit brought to force appointment of a Receiver. Phil., 1859. 14 pp., 9 x 6, pap.
- 370 **CEDAR RAPIDS & MISSOURI RIVER R. R.** Leases of Chicago, Iowa & Nebraska R. R. and C. R. & M. R. R. Co. to the Galena & Chicago Union R. R. Co. and Chicago & North-Western Ry. Co. no place, 1862. 78 pp., 9 x 6, pap.
- 371 — Leases of Chicago, Iowa & Nebraska R. R., C. R. & M. R. R. Co., Beloit & Madison R. R. Co., to the Galena & Chicago Union R. R. Co. no place, 1862. 72 pp., 9 x 6, pap.
- 424 **CENTRAL BRANCH UNION PACIFIC R. R.** Argument before J. D. Cox, Secretary of the Interior, in support of the right of the C. B. U. P. R. Co., under existing laws, to continue and extend its road to the "Main Trunk" (the Union Pacific R. R.), as one of the "branches" thereof. E. H. Nichols. Wash., 1869. 44 pp., 9 x 6, pap.
- 300 — Argument before the Hon. S. F. Phillips, Solicitor-General of the United States, on the occasion of the C. B. U. P. R. Co. submitting to the President of the United States a map of the proposed continuation and extension of the road of that company from the meridian of Fort Riley to a connection with the "Main Trunk" (the Union Pacific R. R.), at the one-hundredth meridian, Dec. 12th, 1872. E. H. Nichols. Wash., 1872. 58 pp., 9 x 6, b. p.
- 426 — Argument in support of an explanatory act declaratory of the rights of the C. B. U. P. R. Co. under existing laws. E. H. Nichols. no place, no date. 24 pp., 9 x 6, pap. no title-page.
- 300 — Arguments before the Hon. S. F. Phillips, Solicitor-General of the United States, on behalf of the C. B. U. P. R. Co., Dec. 12th, 1872. E. H. Nichols, B. R. Curtis and W. M. Evarts. Wash., 1872. 61 pp., 9 x 6, b. p.
- 426 — Bondholders' agreement. no place, no date. 9 pp., 9 x 7, pap.
- 300 — Opinion of the Solicitor-General of the United States relating to and confirming the right of the C. B. U. P. R. Co. to continue and extend its road from the meridian of Fort Riley to a connection with the "Main Trunk" (the Union Pacific R. R.), at the one-hundredth meridian. S. F. Phillips. no place, 1873. 9 pp., 9 x 6, b. p. no title-page.
- 304 **CENTRAL OHIO R. R.** Articles of agreement between the C. O. R. R. Co. and the Baltimore & Ohio R. R. Co., Nov. 21st, 1866. no place, 1866. pp. 50-66, 9 x 6, b. p.
- 440 **CENTRAL PACIFIC R. R.** Acts relating to and affecting the Union and Central Pacific R. R. Companies and their branches. U. S.-Congress. no place, 1868. 108 pp., 9 x 6, cl.
- 447 — Pacific railroad: Acts and amendments, approved July 1st, 1862, Mar. 3d, 1863, July 2d, 1864, Mar. 3d, 1865, July 3d, 1866; carefully compiled from authenticated copies for the C. P. R. R. Co. U. S.-Congress. N. Y., 1868. 38 pp., 9 x 6, pap.
- 388 — Preamble and resolution. Luttrell. (49d Cong., 1st Sess. House misc. doc. No. 68.) Note: Resolution asks for the appointment of a committee to investigate the management of the C. P. R. R. Co. no place, 1874. 37 pp., 9 x 6, b. p. no title-page.
- 437 — Views of the Minority. U. S.-House Committee on Pacific Railroads. (54th Cong., 1st Sess. House rep. 1497, Pt. 2.) Wash., 1896. 30 pp., 9 x 6, pap. no title-page.
- 436 — Views of the Minority. U. S.-Senate Committee on Pacific Railroads. (54th Cong., 1st Sess. Senate rep. 778, Pt. 2.) Wash., 1896. 298 pp., 9 x 6, pap. no title-page.
- 338 **CENTRAL R. R. OF NEW JERSEY.** Lease of the Lehigh & Susquehanna R. R. by the C. R. R. Co. of N. J. Note: Agreement between the Lehigh Coal & Navigation Co. and the C. R. R. Co. of N. J. N. Y., 1871. 16 pp., 9 x 6, pap.
- 301 **CHARLESTON, CINCINNATI & CHICAGO R. R.** Mortgage, dated Aug., 1887. N. Y., 1887. 15 pp., 9 x 6, b. p.
- 301 — 6% collateral trust bonds, dated Oct. 1st, 1887. Massachusetts & Southern Construction Co. no place, 1887. 14 pp., 9 x 6, b. p.
- CHESAPEAKE & OHIO R. R.** Statement of its present condition as presented to the Receiver by its officers; also of the character and condition of the suits now pending for the foreclosure of mortgages. no place, 1875. 62 pp., 9 x 6, b. p. Aa-86, p. 626.
- 375 **CHESAPEAKE & OHIO RY.** Agreement for the reorganization of the C. & O. Ry. Co., Feb. 7th, 1888. Phil., 1888. 19 pp., 9 x 6, pap.
- 373 **CHICAGO, ALTON & ST. LOUIS R. R.** Bondholders' agreement of the C., A. & St. L. R. R. Co. (late Chicago & Mississippi) as made Jan. 10th, 1860, and modified July 9th, 1862. N. Y., 1862. 16 pp., 9 x 6, pap.
- 298 **CHICAGO & ALTON R. R.** Before the Interstate Commerce Commission: The C. & A. R. R. Co. against the Pennsylvania Co.; the C. & A. R. R. Co. against the Pennsylvania R. R. Co.; the Chicago, Rock Island & Pacific R. R. Co. against the New York Central & Hudson River R. R. Co.; tried June 16th and 17th, 1887, decided July 14th, 1887: Report of the Commission. no place, 1887. 17 pp., 9 x 6, b. p.

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- 298 —Inter-State Commerce Commission: Involving the question of paying passenger commissions; complaint of the C. & A. R. R. Co.; answer of the Pennsylvania Co., and argument for the Respondent by Geo. R. Blanchard; hearing at Washington, D. C., June 16th, 1887. Chic., 1887. 50 pp., 9 x 6, b. p.
- 236 **CHICAGO & EASTERN ILLINOIS R. R.** First mortgage, to Franklin H. Story, Trustee, dated Dec. 1st, 1881. Chic., no date. 25 pp., 9 x 6, b. p.
- 304 —Indenture of lease; Chicago & Western Indiana R. R. Co. to C. & E. I. R. R. Co., dated Oct. 24th, 1879. Phil., 1879. 29 pp., 9 x 6, b. p.
- 304 —Indenture of lease: South Chicago & Western Indiana R. R. Co. to C. & E. I. R. R. Co., dated Dec. 1st, 1880. no place, 1880. 24 pp., 9 x 6, b. p.
- 304 —Lease; Evansville, Terre Haute & Chicago Ry. Co. to C. & E. I. R. R. Co., dated Apr. 30th, 1880. Chic., 1880. 16 pp., 9 x 6, b. p.
- 296 —Lease of Chicago Car Trust to C. & E. I. R. R. Co. Chic., 1881. 7 pp., 9 x 6, b. p.
- 296 —Trust deed to Thomas W. Shannon, Trustee; income mortgage, dated Dec. 1st, 1877, securing income bonds, due Dec. 1st, 1907. Chic., no date. 12 pp., 9 x 6, b. p.
- CHICAGO & ERIE R. R.** Plan and agreement for the reorganization of the Erie system including New York, Lake Erie & Western R. R. Co., New York, Pennsylvania & Ohio R. R. Co., C. & E. R. R. Co.; dated Aug. 20th, 1886. C. H. Coster, Louis Fitzgerald and A. J. Thomas. 1886. (See A-410.)
- 374 **CHICAGO & GREAT EASTERN RY.** Examination of the powers of the charter. J. M. Walker. Chic., 1864. 18 pp., 9 x 6, pap.
- 370 **CHICAGO & NORTHWESTERN RY.** Leases of Chicago, Iowa & Nebraska R. R. and Cedar Rapids & Missouri River R. R. Co. to the Galena & Chicago Union R. R. Co. and C. & N. W. Ry. Co. no place, 1862. 78 pp., 9 x 6, pap.
- 349 —New York Supreme Court; the people on the relation of Rufus Hatch against Albert L. Pritchard, Treasurer of the C. & N. W. Ry. Co.: Affidavits taken for Defendant. D. P. Ingraham, Jr., comp. N. Y., 1867. 25 pp., 11 x 7, pap.
- 299 —Railway injunction suits, in Wisconsin Supreme Court: Opinion by Chief Justice Ryan, delivered at Madison, Wis., Sept. 15th, 1874; the Attorney-General *vs.* the C. & N. W. Ry. Co.; the Attorney-General *vs.* the Chi., Mil. & St. Paul Ry. Co. Madison, 1874. 50 pp., 9 x 6, b. p.
- 350 —Supreme Court; John J. Howell and Joseph M. Deveau against the C. & N. W. Ry. Co. and others: Opinion, June 27th, 1868. Ingraham. N. Y., 1868. 25 pp., 10 x 7, pap.
- 373 —U. S. Circuit Court, Northern District of Illinois; Julius Wadsworth against the C. & N. W. Ry. Co. and others: Answer of the C. & N. W. Ry. Co. and others. Note: Relates to the legality of the consolidation of the C. & N. W. Ry. and the Galena & Chicago Union Ry. no place, no date. 64 pp., maps, 9 x 6, pap.
- 461 —Wisconsin railway legislation. D. A. Wells and others. Note: Relates to an appeal of the railroad companies to the United States Supreme Court against the assumption by the Legislature of the right to confiscate property without compensation. no place, 1874. 19 pp., 9 x 6, pap.
- CHICAGO & PADUCAH R. R.** Prospectus; its present condition, popular advantages, and future prospects; together with the financial resources of the company, and the security of the first mortgage bonds. N. Y., 1872. 37 pp., map, 9 x 6, b. p. Ab-456, p. 313.
- 299 —United States Circuit Court, Southern District of Illinois; John Godard *vs.* the C. & P. R. R. Co. and others; motion to dissolve injunction granted against collection of taxes: Argument for Complainant. Henry Crawford. no place, no date. 47 pp., 9 x 6, b. p.
- 461 **CHICAGO & ST. PAUL RY.** Wisconsin railway legislation. D. A. Wells and others. Note: Relates to an appeal of the railroad companies to the United States Supreme Court against the assumption by the Legislature of the right to confiscate property without compensation. no place, 1874. 19 pp., 9 x 6, pap.
- 302 **CHICAGO & WESTERN INDIANA R. R.** In the Supreme Court of Illinois, Northern Grand Division, Mar. Term, 1881; the Lake Shore & Michigan Southern, and the Chicago, Rock Island & Pacific R. R. Companies, Appellants, *vs.* the C. & W. I. R. R. Co. Appellee; appeal from the County Court of Cook Co.: Argument for Appellee. Henry Crawford. Note: Relates to the crossing of the tracks of the C., R. I. & P. and the L. S. & M. S. Ry. Companies by the C. & W. I. R. R. Co. Chic., 1881. 88 pp., 10 x 8, b. p.
- 304 —Indenture of lease; C. & W. I. R. R. Co. to Chicago & Eastern Illinois R. R. Co., dated Oct. 24th, 1879. Phil., 1879. 29 pp., 9 x 6, b. p.
- 296 —Opinion of the Chief Justice in the case of Eugene M. Dunbar, *et al.*, *vs.* C. & W. I. R. R. Co., *et al.*; in the Supreme Court of Illinois, Southern Grand Division, May Term, A. D. 1880. T. L. Dickey. Note: Case relates to the right of the C. & W. I. R. R. Co. to lay track on, or across, streets in the City of Chicago without permission of City Council. no place, no date. 19 pp., 9 x 6, b. p.

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- CHICAGO & WESTERN INDIANA RY.** Supreme Court of Illinois, Southern Grand Division; Eugene M. Dunbar, *et al.*, vs. the C. & W. I. Ry. Co., *et al.*; agreed case from Superior Court of Cook Co.; Argument. Henry Crawford. Note: Relates to location of the railroad in Chicago. Chic., 1880. 76 pp., 9 x 6, b. p. Zj-195, p. 651.
- 305 **CHICAGO, BURLINGTON & NORTHERN R. R.** Decision of the Court in the case of the Illinois Central R. R. Co. vs. the C., B. & N. R. R. Co.; appeal from Jo Daviess County. Illinois-Supreme Court. no place, no date. 12 pp., 9 x 6, b. p. no title-page.
- 299 **CHICAGO, BURLINGTON & QUINCY R. R.** Supreme Court of Illinois, Northern Grand Division, Sept. Term, 1874; C. B. & Q. R. R. Co. vs. John C. Chamberlain and others; appeal from Circuit Court of Cook County: Argument in reply for Appellant. Henry Crawford. Note: Case relates to legal ownership of land claimed by both parties. no place, 1874. 56 pp., 9 x 6, b. p.
- 305 **CHICAGO, DANVILLE & VINCENNES R. R.** Agreement between the Columbus, Chicago & Indiana Central Ry. Co., the Pittsburg, Cincinnati & St. Louis Ry. Co. and the C., D. & V. R. R. Co., Nov. 18th, 1871. Pittsburg, 1871. 12 pp., 9 x 6, b. p.
- Decisions, given Mar. 10th, 1879; William R. Fosdick and others, vs. Michael Schall; F. W. Huidekoper and others vs. Hinckley Locomotive Works; Wm. R. Fosdick and others vs. Southwestern Car Co. U. S.—Supreme Court. Note: Decisions relating to the payment for material bought before the mortgage on the C., D. & V. R. R. was foreclosed. Chic., 1879. 19 pp., 9 x 6, b. p. Zj-195, p. 508.
- In the Supreme Court of the United States; F. W. Huidekoper, *et al.*, Appellants, vs. the Hinckley Locomotive Works, Appellee: Appellants' reply, and suggestions as to the additional record. Henry Crawford. Note: Litigation relates to the foreclosure of the mortgage on the C., D. & V. R. R. Co. Chic., 1878. 15 pp., 9 x 6, b. p. Zj-195, p. 525.
- 294 —In the United States Supreme Court, Oct. Term, 1881; the C., D. & V. R. R. Co. and James W. Elwell, Appellants, vs. Wm. R. Fosdick and James D. Fish, Trustees, and the C., D. & V. R. R. Co., James W. Elwell and R. Biddle Roberts, Appellants, vs. William R. Fosdick, James D. Fish, Frederick W. Huidekoper, Thomas W. Shannon and John M. Dennison, Appellees; appeals from the Circuit Court of the United States, Northern District of Illinois: Petitions for re-hearing, and suggestions in support thereof. Lawrence, Campbell & Lawrence. Chic., 1882. 73 pp., 9 x 6, b. p.
- Mortgages. no place, no date. 78 pp., 9 x 6, b. p. Aa-84, p. 181.
- Supreme Court of the United States, Oct. Term, 1877; William R. Fosdick and others, vs. the Southwestern Car Co., Intervenor; Chancery; appeal from the Circuit Court of the United States for the Northern District of Illinois; statement of case, assignment of errors and brief for Appellants. Henry Crawford. Note: Relates to the payment for cars sold to the C., D. & V. R. R. Co. by the Southwestern Car Co. Chic., 1878. 53 pp., 9 x 6, b. p. Zj-195, p. 1.
- 299 —Supreme Court of the United States; Stephen Osgood and others, vs. the Hon. Judges of the Circuit Court of the United States for the Northern District of Illinois: Petition for mandamus; statement and points to accompany petition. Henry Crawford. Note: Litigation arising from foreclosure of mortgage on the C., D. & V. R. R. no place, 1875. 82 pp., 9 x 6, b. p.
- 297 —United States of America, Northern District of Illinois; in the Circuit Court thereof; William R. Fosdick and James D. Fish vs. the C., D. & V. R. R. Co.; in Chancery: Report of Receiver. A. Anderson. Chic., 1875. 35 pp., tab., 9 x 6, b. p.
- 297 —Will Circuit Court, to Jan. Term, 1875; Stephen Osgood vs. the C., D. & V. R. R. Co. and others: Report of Receivers to the Court with additional documents. H. B. Hammond and J. B. Brown. Chic., 1875. 96 pp., 9 x 6, b. p.
- 370 **CHICAGO, IOWA & NEBRASKA R. R.** Leases of C., I. & N. R. R. and Cedar Rapids & Missouri River R. R. Co. to the Galena & Chicago Union R. R. Co. and Chicago & North-Western Ry. Co. no place, 1862. 78 pp., 9 x 6, pap.
- 371 —Leases of C., I. & N. R. R., Cedar Rapids & Missouri River R. R. Co., Beloit & Madison R. R. Co., to the Galena & Chicago Union R. R. Co. no place, 1862. 72 pp., 9 x 6, pap.
- 299 **CHICAGO, MILWAUKEE & ST. PAUL RY.** Railway injunction suits, in Wisconsin Supreme Court: Opinion by Chief Justice Ryan, delivered at Madison, Wis., Sept. 15th, 1874; the Attorney-General vs. the Chicago & N. W. Ry. Co.; the Attorney-General vs. the C., M. & St. P. Ry. Co. Madison, 1874. 50 pp., 9 x 6, b. p.
- 298 **CHICAGO, ROCK ISLAND & PACIFIC R. R.** Before the Interstate Commerce Commission: The Chicago & Alton R. R. Co. against the Pennsylvania Co.; the Chicago & Alton R. R. Co. against the Pennsylvania R. R. Co.; the C., R. I. & P. R. R. Co. against the New York Central & Hudson River R. R. Co.; tried June 16th and 17th, 1887, decided July 14th, 1887: Report of the Commission. no place, 1887. 17 pp., 9 x 6, b. p.

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- Contract between the C., R. I. & P. R. R. Co. and the Pennsylvania Co. with reference to joint traffic over the Plymouth, Kankakee & Pacific R. R. Note: Contains also contract between the P., K. & P. R. R. Co. and the Pennsylvania Co. for equipping and operating the road of the first named company. N. Y., 1871. 11 pp., 9 x 6, b. p. Ag-305, p. 589.
- 302 **CHICAGO, ROCK ISLAND & PACIFIC RY.** In the Supreme Court of Illinois, Northern Grand Division, Mar. Term, 1881; the Lake Shore & Michigan Southern, and C., R. I. & P. R. R. Companies, Appellants, *vs.* the Chicago & Western Indiana R. R. Co., Appellee; appeal from the County Court of Cook Co.: Argument for Appellee. Henry Crawford. Note: Relates to the crossing of the tracks of the C., R. I. & P. and the L. S. & M. S. Ry. Companies by the C. & W. I. R. R. Co. Chic., 1881. 68 pp., 10 x 8, b. p.
- CHICAGO, ST. LOUIS & PITTSBURGH R. R.** Agreement of consolidation of the Pittsburgh, Cincinnati & St. Louis Ry. Co., C., St. L. & P. R. R. Co., the Cincinnati & Richmond R. R. Co., and Jeffersonville, Madison & Indianapolis R. R. Co. Note: The consolidation effected by this agreement formed the Pittsburgh, Cincinnati, Chicago & St. Louis Ry. Co. no place, no date. 16 pp., 9 x 6, b. p. no title-page. Aa-85, p. 161.
- CINCINNATI & RICHMOND R. R.** Agreement of consolidation of the Pittsburgh, Cincinnati & St. Louis Ry. Co., Chicago, St. Louis & Pittsburgh R. R. Co., the C. & R. R. R. Co., and Jeffersonville, Madison & Indianapolis R. R. Co. Note: The consolidation effected by this agreement formed the Pittsburgh, Cincinnati, Chicago & St. Louis Ry. Co. no place, no date. 16 pp., 9 x 6, b. p. no title-page. Aa-85, p. 161.
- 484 **CINCINNATI, NEW ORLEANS & TEXAS PACIFIC RY.** Cincinnati Southern Ry.: Opinion construing the Act of Apr. 23d, 1896. R. A. Harrison. Note: Relates to the terms of the lease executed by the Trustees of the Cincinnati Southern Ry. Co. to the C., N. O. & T. P. Ry. Co. no place, 1901. 2 pp., 9 x 6, pap.
- 488 —In the Court of Common Pleas, Hamilton County, Ohio; the City of Cincinnati, Plaintiff, *vs.* Richard M. Bishop, Edward A. Ferguson, Henry Mack, Aaron H. Burgher and John Carlisle, and the C., N. O. & T. P. Ry. Co., Defendants: Petition of Plaintiff, and answer of Richard M. Bishop, *et al.*, Trustees of the Cincinnati Southern Ry. Co. Theodore Horstman and E. A. Ferguson. Note: Relates to the legal title of the Trustees of the C. S. Ry. Co. in and to the property, rights and franchises of the road. Cin., 1889. 81 pp., 9 x 6, pap.
- Lease and mortgage; the Cincinnati Southern Ry. to the C., N. O. & T. P. Ry. Co. 1881. (See Ae-318, p. 24.)
- CINCINNATI SOUTHERN RY.** A study in municipal activity. J. H. Hollander. 1894. (See Aj-45.)
- 478 —Can the road be sold, can the trustees be abolished? Address before the Municipal Corporations Committee No. 1, of the Ohio Senate, on amended Senate Bill No. 168, Mar. 23d, 1893. W. T. Porter. no place, 1893. 74 pp., 9 x 6, pap.
- 482 —Circular of the Trustees, together with the laws authorizing the construction of the railway and the decisions of the Superior Court of Cincinnati and the Supreme Court of Ohio thereon. Cin., 1873. 122 pp., 9 x 6, cl.
- 481 —Ferguson Railway Act; views of the press, address of committees, action of Board of Trade and Chamber of Commerce, record of the case, and opinion of Superior Court of Cincinnati and Supreme Court of Ohio thereon. Cin., 1872. 122 pp., map, 9 x 6, cl.
- 351 —Final form of contract for completing and leasing road, adopted May 11th, 1878. Cin., 1878. 27 pp., 11 x 7, pap.
- 488 —In the Court of Common Pleas, Hamilton County, Ohio; the City of Cincinnati, Plaintiff, *vs.* Richard M. Bishop, Edward A. Ferguson, Henry Mack, Aaron H. Burgher and John Carlisle, and the Cincinnati, New Orleans & Texas Pacific Ry. Co., Defendants: Petition of Plaintiff and answer of Richard M. Bishop, *et al.*, Trustees of the C. S. Ry. Theodore Horstman and E. A. Ferguson. Note: Relates to the legal title of the Trustees of the C. S. Ry. Co. in and to the property, rights and franchises of the road. Cin., 1889. 81 pp., 9 x 6, pap.
- 475 —Laws of Ohio, Kentucky and Tennessee authorizing the construction of the C. S. Ry. no place, 1872. 71 pp., 9 x 6, pap.
- 479 —Legislation of Ohio, Kentucky and Tennessee concerning the C. S. Ry.; together with notes regarding litigation on account of railway, and an historical statement of the trust with accompanying tables; also sinking fund statutes applicable to bonded indebtedness of the City for account of railway; sections of the revised statutes of Ohio relative to organization of common carrier companies, and submission of questions at election; also, Ohio River Bridge Act. Cin., 1901. 24 + 87 pp., 10 x 7, cl.
- 477 —Matthew Thoms *et al.*, Plaintiffs in error, *vs.* Miles Greenwood *et al.*, Defendants in error; error to the Superior Court of Cincinnati; record. Ohio-Supreme Court. Note: Suit relates to the validity of bonds issued by the City of Cincinnati for the completion of the C. S. Ry. Cin., 1878. 97 pp., 9 x 7, pap.

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- Memorandum of agreement between the Trustees of the C. S. Ry. and the C. S. Ry. Co. Note: Relates to the granting of a license with rights of using the road; contains also Lease and mortgage to the Cincinnati, New Orleans & Texas Pacific Ry. Co. 1881. (See Ae-318.)
- 484 —Opinion construing the Act of Apr. 23d, 1898. R. A. Harrison. Note: Relates to the terms of the lease executed by the Trustees of the C. S. Ry. Co. to the Cincinnati, New Orleans & Texas Pacific Ry. Co. no place, 1901. 2 pp., 9 x 6, pap.
- 476 —Petitions in behalf of the passage of the "Wright" Amendatory Bill to the C. S. Ry. Act, Mar. 26th, 1873, and remonstrance against any interference with the several bills authorizing the construction of the road, Jan. 22d, 1874. Cin., 1874. 10 pp., 9 x 6, pap.
- 474 —Statement relative to the C. S. Ry. trust. Cin., 1885. 25 pp., 9 x 6, pap.
- 480 —Superior Court of Cincinnati; Matthew Thoms *et al.*, Plaintiffs, against Miles Greenwood *et al.*, Defendants: Oral arguments and decision. J. J. Glidden and others. Note: Suit relates to the validity of bonds issued by the City of Cincinnati for the completion of the C. S. Ry. no place, 1878. 349 + 56 pp., map, 9 x 6, pap.
- 305 CLEVELAND, COLUMBUS, CINCINNATI & INDIANAPOLIS R. R. Brief for Appellees, Supreme Court of the United States, Oct. Term, 1887; the St. Louis, Alton & Terre Haute R. R. Co., Appellant, *vs.* the C., C. & I. R. R. Co., *et al.*, Appellees. J. T. Dye. Note: Appeal from the Circuit Court of the United States for the District of Indiana. no place, 1888. 18 pp., 9 x 6, b. p.
- 294 COLUMBUS, CHICAGO & INDIANA CENTRAL R. R. In the Circuit Court of the United States, District of Indiana; the Pittsburgh, Cincinnati & St. Louis Ry. Co. *versus* the C., C. & I. C. R. R. Co., *et als.*; Roosevelt and Fosdick, Receivers and Trustees, *versus* the P., C. & St. L. Ry. Co. *et als.*: Bill and cross-bill in Chancery; brief for Complainant. Matthews, Ramsey & Matthews. Note: Case relates to the annulment of lease of C., C. & I. C. R. R. Co. held by Complainant. Cin., no date. 94 pp., 9 x 6, b. p.
- 305 COLUMBUS, CHICAGO & INDIANA CENTRAL RY. Agreement between the C., C. & I. C. Ry. Co., the Pittsburgh, Cincinnati & St. Louis Ry. Co. and the Chicago, Danville & Vincennes R. R. Co., Nov. 18th, 1871. Pittsburg, 1871. 12 pp., 9 x 6, b. p.
 - Amended lease and contract between the C., C. & I. C. Ry. Co., the Pittsburgh, Cincinnati & St. Louis Ry. Co. and the Pennsylvania R. R. Co. Columbus, 1871. 18 pp., 9 x 6, b. p. Ag-305, p. 521.
 - And the Pennsylvania R. R. guarantee. N. Y., 1875. 24 pp., 9 x 6, b. p. Aa-82, p. 201.
- 409 —Copy of mortgage, etc. no place, 1868. 32 pp., 9 x 6, pap. no title-page.
- 294 —In the Circuit Court of the United States, District of Indiana: The Pittsburgh, Cincinnati & St. Louis Ry. Co. *vs.* the C., C. & I. C. Ry. Co., *et al.*; Roosevelt and Fosdick, Trustees, *vs.* the P., C. & St. L. Ry. Co., *et al.*: Bill and cross-bill in Chancery; argument of Counsel for Complainants, before Associate Justice Harlan, of the Supreme Court of the United States, at Newport, R. I., Aug. 14th and 15th, 1878. Stanley Matthews. Note: Case relates to the annulment of the lease of the C., C. & I. C. Ry. Co. held by the Complainant. Phil., 1878. 192 pp., 9 x 6, b. p.
- 410 —Lease and contract between the C., C. & I. C. Ry. Co., the Pittsburgh, Cincinnati & St. Louis Ry. Co. and the Pennsylvania R. R. Co. Columbus, 1869. 16 pp., 9 x 6, pap.
 - Same; N. Y., 1889. 20 pp., 9 x 6, b. p. Ag-305, p. 541.
- 412 COLUMBUS, PIQUA & INDIANA R. R. Opinion of the Court in the case of George S. Coe *vs.* the C., P. & I. R. R. Co. and others; with exhibit of the company. Ohio-Supreme Court. Note: Orders appointment of receivers and sale of road. no place, 1857. 80 pp., 9 x 6, pap. no title-page.
- 418 —Opinion of the Supreme Court of Ohio, in the case of the C., P. & I. R. R. Co. *vs.* George S. Coe, and George S. Coe *vs.* the C., P. & I. R. R. Co., announced Apr. 3d, 1860. W. Y. Gholson. Note: Relates to the general powers of the company to dispose of its property, and the liability of that property to be subjected to the payment of its debts. Columbus, 1860. 38 + 2 pp., 9 x 6, pap.
- 294 CONNECTICUT. Argument before the Railroad Committee at the Capitol, upon the hearing concerning the petition for a parallel railroad, Mar. 3d, 1882. G. H. Watrous. Note: Petition for building a railroad parallel to the New York, New Haven and Hartford R. R. no place, 1882. 38 pp., 9 x 6, b. p. no title-page.
 - Speech in the House of Representatives at Hartford, Mar. 29th, 1882, on the proposition to charter a competing railroad. E. D. Robbins. no place, 1882. 11 pp., 9 x 6, b. p. no title-page. Ab-455, p. 17.
 - State of Connecticut, General Assembly, January Session, 1883; railroad taxation; facts submitted to the Joint Standing Committee on Finance, in support of the bill for an act to reduce the rate of railroad taxation. S. E. Baldwin. no place, 1883. 13 pp., 9 x 6, b. p. no title-page. Ab-76, p. 117.

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- Statutes relating especially to railroads. Railroad Commissioners, comp. 1870-1901. (See A1-15.)
- 295 **DANVILLE, OLNEY & OHIO RIVER R. R.** Charter and by-laws. Kansas, Ill., 1856. 13 pp., 9 x 6, b. p.
- 335 **DELAWARE & MARYLAND R. R.** Laws incorporating the Philadelphia, Wilmington & Baltimore R. R. Co. of the State of Pennsylvania; the Wilmington & Susquehanna R. R. Co. of the State of Delaware; the D. & M. R. R. Co. of the State of Maryland; the Baltimore & Port Deposit R. R. Co. of the State of Maryland; as enacted by the different Legislatures of those States; together with the articles of union, between the Wilmington & Susquehanna and the D. & M. R. R. Companies. Phil., 1836. 69 pp., 9 x 6, pap.
- 417 **DENVER PACIFIC RY. & TELEGRAPH CO.** Articles of union and consolidation of the Union Pacific R. R. Co., the Kansas Pacific Ry. Co. and D. P. Ry. & Telegraph Co. into the Union Pacific Ry. Co., dated Jan. 24th, 1880; and the by-laws of the U. P. Ry. Co. Bost., 1884. 16 pp., 9 x 6, pap.
- 358 — In the Supreme Court of the United States; the Kansas Pacific Ry. Co., Plaintiff in error, against the State of Kansas, *ex. rel.* W. A. Johnston, as Attorney-General, Defendant in error, F. L. Ames *et al.*, calling themselves the Board of Directors of the Union Pacific Ry. Co., Plaintiffs in error, against the State of Kansas, *ex. rel.* Attorney-General, Defendant in error; Oral argument in behalf of the Plaintiffs in error, other than Govt. Directors, in support of the right to remove the causes into the Federal Court, Mar. 7th, 10th, 1884. J. F. Dillon, Note: Relates to the consolidation of the U. P. Ry. Co., the K. P. Ry. Co. and the D. P. Ry. & Telegraph Co. no place, 1884. 77 pp., 9 x 6, pap.
- 352 **EAST TENNESSEE, VIRGINIA & GEORGIA R. R.** Agreement for the purchase and reorganization of the railroad. N. Y., 1845. 13 pp., 11 x 7, pap.
- EAST TENNESSEE, VIRGINIA & GEORGIA RY.** Plan and agreement for the reorganization of the Richmond & West Point Terminal Ry. & Warehouse Co., Richmond & Danville R. R. Co. and system, E. T., V. & G. Ry. Co. and system, dated May 1st, 1893. (See A1-416.)
- ERIE R. R.** Plan and agreement for the reorganization of the Erie system including New York, Lake Erie & Western R. R. Co., New York, Pennsylvania & Ohio R. R. Co., Chicago & Erie R. R. Co.; dated Aug. 20th, 1895. C. H. Coster, Louis Fitzgerald and A. J. Thomas. 1895. (See A1-410.)
- 411 **ERIE RY.** Analysis of the Erie Reorganization Bill, with a statement, based upon official documents and figures, prepared for and at the request of holders of E. Ry. shares, and submitted for the consideration of the Legislature. John Livingston. N. Y., 1876. 76 pp., 9 x 6, pap.
- 414 — Between Hugh J. Jewett, Receiver of the E. Ry. Co., Complainant, and Sigmund Dringer and Henry Bowman, Defendants; in equity: Opinion of the Court. New Jersey—Court of Appeals. Note: Relates to the alleged fraud of the Defendants. Newark, 1876 (?) 12 pp., 9 x 6, pap.
- 342 — Court of Appeals; Camden C. Dike, Plaintiff and Respondent, against the E. Ry. Co., Defendant and Appellant; case on appeal. Note: Relates to the wreck at Carr's Rock, Apr. 15th, 1868. no place, 1869. 54 pp., 10 x 7, pap.
- 341 — Farmers' Loan & Trust Co., Plaintiff, against the E. Ry. Co. and others, Defendants: Judgment. New York—Supreme Court. Note: Relates to the foreclosure of a mortgage. N. Y., 1877. 34 pp., 10 x 7, pap.
- 353 — Supreme Court, City and County of New York; August Belmont and Ernest B. Lucke, against the E. Ry. Co., Jay Gould, James Fisk, Jr., Frederick A. Lane and others: Copy summons, complaint, affidavits, injunction order, and order to show cause. Rapallo & Spencer. no place, 1868. 59 pp., 11 x 7, pap.
- 354 — Supreme Court, County of Albany; the people of the State of New York, against the E. Ry. Co. and others: Copy summons and complaint. M. B. Champlain. no place, 1868. 40 pp., 11 x 7, pap.
- 355 **EVANSVILLE & TERRE HAUTE R. R.** First general mortgage. no place, 1892. 30 pp., 12 x 9, pap.
- 304 **EVANSVILLE, TERRE HAUTE & CHICAGO RY.** Lease; E., T. H. & C. Ry. Co. to Chicago & Eastern Illinois R. R. Co., dated Apr. 30th, 1880. Chic., 1880. 16 pp., 9 x 6, b. p.
- 295 — \$750 000 first mortgage gold bonds. Terre Haute, no date. 14 pp., map, 9 x 6, b. p.
- 451 **FORT WAYNE & CHICAGO R. R.** Exhibit of the Pittsburgh, Fort Wayne & Chicago R. R. Co., relating to the F. W. & C. R. R. Co. first mortgage bonds, with the articles of consolidation and laws relating thereto. Pittsburgh, 1856. 81 pp., 9 x 6, pap.
- 370 **GALENA & CHICAGO UNION R. R.** Leases of Chicago, Iowa & Nebraska R. R. and Cedar Rapids & Missouri River R. R. Co. to the G. & C. U. R. R. Co. and Chicago & North-Western Ry. Co. no place, 1862. 78 pp., 9 x 6, pap.
- 371 — Leases of Chicago, Iowa & Nebraska R. R., Cedar Rapids & Missouri River R. R. Co., Beloit & Madison R. R. Co., to the G. & C. U. R. R. Co. no place, 1862. 72 pp., 9 x 6, pap.

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- 295 **GALVESTON, HARRISBURG & SAN ANTONIO RY.** Brief statement concerning the G., H. & S. A. Ry. Co., with a list of its directors and officers, trustees of bonds and mortgage, and report of Treasurer. Bost., 1872. 53 pp., 9 x 6, b. p.
- GENERAL.**
- 296 **BALDWIN, S. E.** Brief for Defendant; in the Circuit Court of the United States, District of Connecticut; the Electric R. R. Signal Co. *vs.* the Hall Ry. Signal Co.; in equity. New Haven, 1880. 41 pp., 9 x 6, b. p.
- 296 **CHICAGO CAR TRUST.** Articles of agreement. Chic., 1881. 12 pp., 9 x 6, b. p.
- EMOTT, JAMES.** In the Court of Appeals; Morris K. Jesup and others, Respondents, against John Duff, F. Gordon Dexter and Oliver Ames, impleaded with Andrew Carnegie and others, Appellants: Brief and points for Appellants. Note: Relates to the Davenport Ry. Construction Co. N. Y., 1879. 57 pp., 9 x 6, b. p. Zj-195, p. 557.
- In the Court of Appeals; Morris K. Jesup and others, Respondents, *vs.* John Duff, F. Gordon Dexter and the Executors of Oliver Ames, impleaded with Andrew Carnegie and others, Appellants: Supplemental points. Note: Case relates to the validity of the formation of the Davenport Ry. Construction Co. as a corporation. no place, no date. 12 pp., 9 x 6, b. p. no title-page. Zj-195, p. 545.
- KIRKMAN, M. M.** Railway legislation: The growth of our railway system and some of the mistakes attending it; tendency of legislation; the real *versus* the sentimental, that which would benefit a country in contradistinction to that which would cripple it; the impossibility of distinguishing state from interstate traffic; baneful effects of legislation that presumes a separation possible. ed. 4. Chic., 1886. 28 pp., 9 x 6, b. p. Ae-400, p. 325.
- 486 **TOWNSEND.** Circuit Court of the United States for the Southern District of New York; George Westinghouse, Jr., and the Westinghouse Air Brake Co. *vs.* the New York Air Brake Co., *et al.*, in equity; the Westinghouse Air Brake Co. *vs.* the New York Air Brake Co. *et al.*, in equity: Opinion of the Judge sustaining the broad claims of the Westinghouse quick-action air brake patents. N. Y., 1893. 56 pp., 9 x 6, pap.
- 356 **GEORGIA R. R. & BANKING CO.** Lease, G. R. R. & B. Co. to William M. Wadley, May 7th, 1881. no place, 1881. 14 pp., 9 x 7, pap.
- 299 **GILMAN, CLINTON & SPRINGFIELD R. R.** State of Illinois, McLean Circuit Court; Joseph J. Kelly and others, *vs.* the G., C. & S. R. R. Co. and others: Opinion on motion for a receiver. T. F. Tipton. no place, 1873. 32 pp., 9 x 6, b. p.
- 380 **GRAND RAPIDS & INDIANA R. R.** Agreement between the G. R. & I. R. R. Co., the Continental Improvement Co., the Pennsylvania R. R. Co., and the Pennsylvania Co., dated Dec. 1st, 1875. Phil., 1875. 7 pp., 9 x 6, pap.
- 357 —First mortgage bonds and other documents. Pittsburg, 1870. 78 pp., maps, 9 x 6, pap.
- 361 —Mortgage; the G. R. & I. R. R. Co. to Thomas D. Messler and Charles E. Speer, in trust, dated Dec. 1st, 1875. Phil., 1875. 14 pp., 9 x 6, pap.
- GRAND TRUNK RY. OF CANADA.** United States District Court, Northern District of New York: Proofs, pleadings, exhibits and statutes. Canada Southern Ry. Co. *vs.* International Bridge Co. and G. T. Ry. Co. of Canada. Note: Case relates to amount of tolls or compensation to be paid by railway companies for use of the International Bridge, Buffalo, N. Y., and includes a description of its construction and cost. 1881. (See Fh-119.)
- 326 **GREAT BRITAIN.** Act to make better provision for carrying into effect the Railway and Canal Traffic Act, 1854, and for other purposes connected therewith. (36 & 37 Vict.) Lond., 1873. 13 pp., 13 x 9, b. p. no title-page.
- 326 —Amended general orders under the Regulation of Railways Act, 1873. Railway Commissioners. no place, 1875. 11 pp., 13 x 9, b. p.
- 326 —Bill to amend the Regulation of Railways Acts, and for other purposes. (47 Vict.) Lond., 1884. 11 pp., 13 x 9, b. p.
- 308 —Practice before the Railway Commissioners under "The Regulation of Railways Act, 1873"; with the law applicable thereto, and the general orders, forms, table of fees, statutes, etc. R. G. Junner. Lond., 1874. 36 + 215 pp., 9 x 6, cl.
- 310 —Railway and Canal Traffic Act, 1888: Pt. 1. W. A. Hunter. Note: A full account of the existing law with respect to maximum rates and terminal charges and the new classification of goods and revised schedules of rates of twenty-four principal railways of the United Kingdom. Lond., 1889. 1 v., tab., 9 x 6, cl.
- 309 —Railway rights and duties: A summary of the law relating to a railway in operation. James Ferguson. Edin., 1889. 20 + 402 pp., 9 x 6, cl.
- 311 —Regulation of Railways Act, 1873, and other railway and canal statutes; containing the law of traffic facilities, undue preference, through rates, canal maintenance, working agreements, railway arbitrations, and other matters within the jurisdiction of the Railway Commissioners; with the general orders, forms, and tables of fees. J. M. Lely. Lond., 1873. 12 + 176 pp., 9 x 6, cl.

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- 313 —Treatise on the law relating to rates and traffic on railways and canals, with special reference to the Railway and Canal Traffic Act, 1888, and an appendix of statutes, rules, etc. A. K. Butterworth and C. E. Ellis. Lond., 1889. 32 + 235 + 106 pp., tab., 10 x 6, cl.
- HARLEM R. R.** Agreements between the Mayor, Aldermen and Commonalty of the City of New York, and the Harlem, Hudson River, Sixth, Eighth, Second and Third Avenue R. R. Companies, relative to laying rails through the streets and avenues of the City. 1864. (See Bf-43.)
- HARTFORD & NEW HAVEN R. R.** Report in regard to passenger fares and freights on the several railroads of the State; also contracts and leases of the New York & New Haven R. R. Co., New York & Harlem R. R. Co., H. & N. H. R. R. Co. and Shore Line R. R. Co. Connecticut-Joint Standing Committee on Railroads. no date. (See Ah-38.)
- HOT SPRINGS R. R.** Statement of facts by the attorneys of the Plaintiff and Defendants; with opinion of the Court. Little Rock & Memphis R. R. Co. vs. St. Louis, Iron Mountain & Southern Ry. Co., H. S. R. R. Co. and J. N. Conger. Note: Suit relates to the power of a Court of Equity to compel a railroad company to enter into a contract with another company for a joint through rate or joint through routing of freight and passengers. no place, no date. 10 pp., 9 x 6, b. p. no title-page. Aa-79, p. 177.
- 359 **HOUSTON EAST & WEST TEXAS RY.** Charter and by-laws of the company, with a description of the counties immediately upon and adjacent to its line. Houston, 1878. 37 pp., map, 9 x 6, pap.
- 458 **HUDSON RIVER R. R.** Act to authorize the construction of a railroad from New York to Albany, passed May 12th, 1846. New York-Legislature. N. Y., 1846. 20 pp., 9 x 6, pap.
- Agreements between the Mayor, Aldermen and Commonalty of the City of New York, and the Harlem, Hudson River, Sixth, Eighth, Second and Third Avenue R. R. Companies, relative to laying rails through the streets and avenues of the City. 1864. (See Bf-43.)
- 381 **IDAHO CENTRAL RY.** Articles of consolidation and agreement between the Oregon Short Line Ry. Co., the Utah & Northern Ry. Co., the Utah Central Ry. Co., the Salt Lake & Western Ry. Co., the Utah & Nevada Ry. Co., the Ogden & Syracuse Ry. Co., the I. C. Ry. Co. and the Nevada Pacific Ry. Co. Bost., 1889. 24 pp., 9 x 6, pap.
- ILLINOIS.** Is a rebate in railroad freight rates an unjust discrimination? Opinion of the Commissioners. Illinois-Railroad and Warehouse Commission. Note: Opinion in case of E. R. Knowlton vs. Michigan Central R. R. Co. no place, 1879. 12 pp., 9 x 6, b. p. Aa-32, p. 395.
- 305 **ILLINOIS CENTRAL R. R.** Decision of the Court in the case of the I. C. R. R. Co. vs. the Chicago, Burlington & Northern R. R. Co.; appeal from Jo. Daviess County. Illinois-Supreme Court. no place, no date. 12 pp., 9 x 6, b. p. no title-page.
- 297 **INDIANA & ILLINOIS CENTRAL RY.** Agreement of Bondholders. no place, 1874. 6 pp., 9 x 6, b. p.
- 296 —Brief and points for Appellant; in the Supreme Court of the United States, the I. & I. C. Ry. Co., Appellant, vs. Henrietta P. Sprague, Respondent. James Emott and J. E. McDonald. Note: Suit relates to foreclosure of mortgage on the property of the railroad. no place, no date. 18 pp., 9 x 6, b. p.
- 395 —Deed of trust, dated 1st Apr., 1870, to secure first mortgage bonds. N. Y., 1870. 32 pp., 9 x 6, pap.
- 307 —First mortgage seven per cent. gold bonds. N. Y., 1870. 46 pp., tab., 9 x 6, b. p.
- 307 —First mortgage seven per cent. sinking fund gold bonds of the I. & I. C. Ry. Co. as an investment on eighty-five miles of completed road. N. Y., 1878. 7 pp., 9 x 6, b. p.
- 396 —Laws of the States of Indiana and Illinois affecting the I. & I. C. Ry. Co.; together with the articles of association and consolidation of said company. Indianapolis, 1855. 52 pp., 9 x 6, pap.
- 307 —Release from deed of trust made Aug. 15th, 1873. no place, 1873. 22 pp., 9 x 6, b. p. no title-page.
- 307 —Trust deed. no place, 1870. 32 pp., 9 x 6, b. p. no title-page.
- INDIANAPOLIS, BLOOMINGTON & WESTERN RY.** Statement of facts and points for the Farmers' Loan and Trust Co.; Malcolm C. Turner, *et al.*, vs. I. B. & W. Ry. Co., *et al.*; intervening petition of the Paris and Danville R. R. Co., United States Circuit Court, Southern District of Illinois, and District of Indiana. R. E. Williams. no place, no date. 12 pp., 9 x 6, b. p. no title-page. Zj-195, p. 183.
- United States Circuit Courts, for the Southern District of Illinois and District of Indiana; Malcolm C. Turner, *et al.*, vs. the I. B. & W. Ry. Co., *et al.*; original bill in Chancery; and the Farmers' Loan & Trust Co. vs. the I. B. & W. Ry. Co., *et al.*, cross bill; statement of facts and points for the Farmers' Loan & Trust Co. on priority of claims, for labor and supplies. Ashbel Green, R. E. Williams and J. A. Johnson. Indianapolis, 1878. 52 pp., 9 x 6, b. p. Zj-195, p. 129.

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- INDIANAPOLIS, CINCINNATI & LAFAYETTE R. R.** Circuit Court of the United States, District of Indiana; Report of Special Commissioner in *George Hoadley, et al. v. Lafayette, Muncie & Bloomington R. R. Co.*; bill to enjoin the Defendant from occupying the right of way and crossing the tracks of the I. C. & L. R. R. Co. J. H. Howe. no place, 1876. 16 pp., 9 x 6, b. p. Zj-185, p. 215.
- INDIANAPOLIS, DECATUR & SPRINGFIELD RY.** Articles of consolidation between the I., D. & S. Ry. Co. and the Springfield, Decatur & Indianapolis Ry. Co. N. Y., 1875. 14 pp., 9 x 6, b. p. Aa-86, p. 609.
- Circuit Court of the United States, District of Indiana; Evidence. J. D. Probst vs. I., D. & S. Ry. Co. Indianapolis, 1886. 272 pp., 9 x 6, b. p. Aa-87, p. 281.
- 302 —First mortgage, dated Apr. 1st, 1881, to Central Trust Co. of New York, and John C. New of Indiana, Trustees. N. Y., 1881. 16 pp., 10 x 8, b. p.
- 302 —In the matter of the claim of the I., D. & S. Ry. Co. vs. the County of Macon: Statement and opinion. G. W. Smith. Note: Relates to the pledge made by the County of Macon to issue bonds in aid of the construction of the I., D. & S. Ry. no place, 1880. 19 pp., 10 x 8, b. p. no title-page.
- In the Superior Court, State of Indiana, County of Marion: Complaint. B. A. Sands and R. B. F. Pierce vs. I., D. & S. Ry. Co., et al. Note: Plaintiff brings suit to compel sale of railroad because of non-payment of interest on mortgage. no place, no date. 46 pp., 9 x 6, b. p. no title-page. Aa-79, p. 129.
- 301 —In the Supreme Court of Indiana, May Term, 1889; the Indianapolis, Decatur & Western Ry. Co. vs. Center Township, Marion Co., Ind., and the I., D. & S. Ry. Co.: Appellant's brief; statement of the case. S. M. Shepard and Charles Martindale. Note: Suit relates to the recovery of a sum of money pledged to the railway company. no place, 1889. 87 pp., 9 x 6, b. p. no title-page.
- In the United States Circuit Court for the District of Indiana; Benjamin C. Sands vs. the I., D. & S. Ry. Co.: Opinions. W. Q. Gresham and Woods. Note: Relates to the foreclosure of the mortgage and the appointment of a receiver. no place, 1889. 12 pp., 9 x 6, b. p. Ad-271, p. 551.
- John D. Probst vs. I., D. & S. Ry. Co. and others; brief for Trustees of first mortgage in opposition to motion to take the railroad from their possession; United States Circuit Court, District of Indiana. R. B. F. Pierce and A. L. Mason. no place, no date. 80 pp., 9 x 6, b. p. no title-page. Aa-79, p. 211.
- John D. Probst vs. the I., D. & S. Ry. Co., et al.; decree entered Feb. 2d, 1887. U. S.—Circuit Court, District of Indiana. Phil., 1887. 18 pp., 9 x 6, b. p. Aa-87, p. 263.
- Report of Richard L. Ashhurst, Trustee and Special Master appointed by the decree entered Feb. 8d, 1887; Circuit Court of the United States for the District of Indiana; John D. Probst vs. the I., D. & S. Ry. Co., et al. no place, no date. 8 pp., 9 x 6, b. p. no title-page. Aa-87, p. 255.
- 302 —Second mortgage, dated July 1st, 1881, to Central Trust Co. of New York, and Nicholas McCarty of Indiana, Trustees. N. Y., 1881. 17 pp., 10 x 8, b. p.
- 301 **INDIANAPOLIS, DECATUR & WESTERN RY.** First mortgage bond. no place, 1888. 20 pp., 9 x 6, b. p. no title-page.
- 301 —In the Supreme Court of Indiana, May Term, 1889; the I., D. & W. Ry. Co. vs. Center Township, Marion Co., Ind., and the Indianapolis, Decatur and Springfield Ry. Co.: Appellant's brief; statement of the case. S. M. Shepard and Charles Martindale. Note: Suit relates to the recovery of a sum of money pledged to the railway company. no place, 1889. 87 pp., 9 x 6, b. p. no title-page.
- 301 —Income bond. no place, 1888. 11 pp., 9 x 6, b. p. no title-page.
- 301 —Second mortgage bond. no place, 1888. 20 pp., 9 x 6, b. p. no title-page.
- INTERNATIONAL & GREAT NORTHERN R. R.** Plan and agreement for the reorganization of the indebtedness of the I. & G. N. R. R. Co., dated Jan. 27th, 1892. (See Ae-409.)
- JEFFERSONVILLE, MADISON & INDIANAPOLIS R. R.** Agreement of consolidation of the Pittsburgh, Cincinnati & St. Louis Ry. Co., Chicago, St. Louis & Pittsburgh R. R. Co., the Cincinnati & Richmond R. R. Co., and J. M. & I. R. R. Co. Note: The consolidation effected by this agreement formed the Pittsburgh, Cincinnati, Chicago & St. Louis Ry. Co. no place, no date. 16 pp., 9 x 6, b. p. no title-page. Aa-85, p. 161.
- JERSEY SHORE, PINE CREEK & BUFFALO RY.** Agreement between the New York Central & Hudson River R. R. Co., Fall Brook Coal Co., J. S., P. C. & B. Ry. Co., Philadelphia & Reading R. R. Co. and others, Feb. 4th, 1882. no place, 1882. pp. 131-165, 9 x 6, b. p. Ae-396, p. 423.
- JUNCTION R. R.** Statement of the President relative to the new securities of the company and documents in that behalf. 1864. (See Ab-172.)
- KANSAS.** Kansas railroads, and the old Board of Railroad Commissioners. Note: Relates to the regulation of rates of charges for the transportation of freight and merchandise on the Atchison, Topeka & Santa Fé and other railroads in the State. 1884. (See Ae-346.)

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- 417 **KANSAS PACIFIC RY.** Articles of union and consolidation of the Union Pacific R. R. Co., the K. P. Ry. Co., and Denver Pacific Ry. & Telegraph Co. into the Union Pacific Ry. Co., dated Jan. 24th, 1880; and the by-laws of the Union Pacific Ry. Co. Bost., 1884. 16 pp., 9 x 6, pap.
- 358 — In the Supreme Court of the United States; the K. P. Ry. Co., Plaintiff in error, against the State of Kansas, *ex rel.* W. A. Johnston, as Attorney-General, Defendant in error, F. L. Ames, *et al.*, calling themselves the Board of Directors of the Union Pacific Ry. Co., Plaintiffs in error, against the State of Kansas, *ex rel.* Attorney-General, Defendant in error: Oral argument in behalf of the Plaintiffs in error, other than the Govt. Directors, in support of the right to remove into the Federal Court, Mar. 7th, 10th, 1884. J. F. Dillon. Note: Relates to the consolidation of the U. P. R. R. Co., the K. P. Ry. Co., and the Denver Pacific Ry. & Telegraph Co. no place, 1884. 77 pp., 9 x 6, pap.
- 365 **LA CROSSE & MILWAUKEE R. R.** Compilation of the several acts of the Legislature of Wisconsin affecting the L. C. & M. R. R. Co.; together with the by-laws of that company; also some general laws of the State in relation to railroads. M. M. Strong, comp. Milwaukee, 1856. 155 pp., 8 x 5, pap.
- 490 — Compilation of the several acts of the Legislature of Wisconsin applying to the St. Croix & Lake Superior R. R. Co.; together with the articles of agreement between the L. C. & M. and St. Croix & Lake Superior R. R. Companies, and the deed of trust. Milwaukee, 1858. 67 pp., 9 x 6, pap.
- 344 — District Court of the United States, District of Wisconsin: Greene C. Bronson, James T. Soutter and Shepherd Knapp, Trustees, against the L. C. & M. R. R. Co. and others: Bill of complaint. Cary & Pratt. N. Y., 1860. 39 pp., 10 x 7, pap.
- 364 — Opinions in the United States District Court, in the case of Bronson & Soutter against the L. C. & M. R. R. Co., and in the case of Bronson, Soutter & Knapp, against the L. C. & M. R. R. Co. Miller. Milwaukee, 1861. 40 pp., 8 x 5, pap.
- 343 — Supreme Court of the United States, No. 198; Greene C. Bronson and James T. Soutter, Trustees, Complainants and Appellants, *vs.* the L. C. & M. R. R. Co., the Milwaukee & Minnesota R. R. Co., *et al.*, Defendants: Motion on behalf of Isaac Seymour, F. P. James and N. A. Cowdrey, for leave to intervene and have the appeal dismissed. J. S. Black. N. Y., 1862. 22 pp., map, 10 x 7, pap.
- 303 — United States District Court, District of Wisconsin, Greene C. Bronson, Shepherd Knapp, James T. Soutter, *vs.* the L. C. & M. R. R. Co., *et al.*; Bill to foreclose the land grant mortgage; argument on behalf of the holders of the high numbered bonds. J. L. Jernegan. Chic., 1881. 28 pp., 9 x 6, b. p.
- LAFAYETTE, MUNCIE & BLOOMINGTON R. R.** Circuit Court of the United States, District of Indiana: Report of Special Commissioner in George Hoadley, *et al.*, *v.* L., M. & B. R. R. Co.; bill to enjoin the Defendant from occupying the right of way and crossing the tracks of the Indianapolis, Cincinnati & Lafayette R. R. Co. J. H. Howe. no place, 1876. 16 pp., 9 x 6, b. p. Zj-195, p. 215.
- 345 **LAKE ERIE & WESTERN RY.** Agreement for the purchase and reorganization of the company. N. Y., 1886. 12 pp., 10 x 7, pap.
- 302 **LAKE SHORE & MICHIGAN SOUTHERN RY.** In the Supreme Court of Illinois, Northern Grand Division, Mar. Term, 1881; the L. S. & M. S., and the Chicago, Rock Island & Pacific R. R. Companies, Appellants, *vs.* the Chicago & Western Indiana R. R. Co., Appellee: appeal from the County Court of Cook Co.: Argument for Appellee. Henry Crawford. Note: Relates to the crossing of the tracks of the C. R. I. & P. and the L. S. & M. S. Ry. Companies. by the C. & W. I. R. R. Co. Chic., 1881. 88 pp., 10 x 8, b. p.
- 363 — Supreme Court, City and County of New York; in the matter of the application of Rufus Hatch and others for a mandamus against the Farmers' Loan & Trust Co., the L. S. & M. S. Ry. Co. and others: Affidavits, orders and opinion of the Court. N. Y., 1877. 56 pp., 9 x 6, pap.
- LAKE SUPERIOR & MISSISSIPPI R. R.** Connecting the Mississippi and Minnesota Rivers and the railroad system of the States of Minnesota and California, with Lake Superior. Note: Contains charter and acts relating to the road. 1866. (See Ab-176.)
- 362 — State and Congressional legislation relating to the company. no place, 1866. 33 pp., 8 x 5, pap.
- 340 **LEAVENWORTH, PAWNEE & WESTERN R. R.** In the matter of Ross, Steel & Co.'s contract with the L., P. & W. R. R. Co., now Union Pacific R. R., Eastern Division: Statement and exhibits. Note: Relates to contract for construction of the road. N. Y., 1866. 19 + 64 pp., map, 9 x 6, pap.
- 339 **LEBANON SPRINGS R. R.** Acts relating to the company. N. Y., 1863. 23 pp., 9 x 6, pap.
- 338 **LEHIGH & SUSQUEHANNA R. R.** Lease of the L. & S. R. R. by the Central R. R. Co. of New Jersey. Note: Agreement between the Lehigh Coal & Navigation Co. and the C. R. R. Co. of N. J. N. Y., 1871. 16 pp., 9 x 6, pap.
- LEHIGH VALLEY R. R.** Copy of lease from the L. V. R. R. Co. to the Philadelphia & Reading R. R. Co. 1893. (See Ag-221, Annual report, 1892, p. 15.)

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- 291 **LEHIGH VALLEY RY.** Court of Appeals, State of New York: In the matter of the application of L. V. Ry. Co. for the appointment of commissioners to ascertain and determine the points and manner of crossing the tracks and lands of the New York Central & Hudson River R. R. Co., in the City of Buffalo: Appellant's brief. no place, 1883. 19 pp., 10 x 7, pap.
- 292 —In the matter of the application of L. V. Ry. Co. for the appointment of commissioners to ascertain and determine the points and manner of crossing the tracks and lands of the New York Central & Hudson River R. R. Co., in the City of Buffalo: Papers on appeal to the Court of Appeals from order of General Term affirming an order of the Special Term appointing commissioners. Buffalo, 1883. 92 pp., 9 x 6, pap.
- 293 —Supreme Court: In the matter of the application of L. V. Ry. Co. for the appointment of commissioners to ascertain and determine the points and manner of crossing the tracks and lands of the New York Central & Hudson River R. R. Co., in the City of Buffalo: Testimony before the Commissioners. Buffalo, 1883. 683 pp., 11 x 8, pap.
- LITTLE ROCK & MEMPHIS R. R.** Statement of facts by the attorneys of the Plaintiff and Defendants; with opinion of the Court. L. R. & M. R. R. Co., vs. St. Louis, Iron Mountain & Southern Ry. Co., Hot Springs R. R. Co. and J. N. Conger. Note: Suit relates to the power of a Court of Equity to compel a railroad company to enter into a contract with another company for a joint through rate or joint through routing of freight and passengers. no place, no date. 10 pp., 9 x 6, b. p. no title-page. Aa-79, p. 177.
- 337 **LONG ISLAND CITY & FLUSHING R. R.** First consolidated mortgage. no place, 1887. 23 pp., 9 x 6, pap.
- 455 **LONG ISLAND R. R.** Supreme Court, Second Judicial District; Samuel Brown agst. the L. I. R. R. Co.; appeal from judgment of County Court to the General Term: Case, exceptions and notice of appeal. W. J. Cogswell. Jamaica, L. I., 1857. 12 pp., 10 x 7, pap.
- 296 **LOUISVILLE & NASHVILLE R. R.** *In re* the L. & N. R. R. Co., *et al.*: Opinion on petitions for relief under Section Four of the Act to Regulate Commerce. U. S.-Interstate Commerce Commission. Wash., 1887. 29 pp., 9 x 6, b. p.
- 466 **LOUISVILLE, EVANSVILLE & ST. LOUIS CONSOLIDATED R. R.** First consolidated mortgage. no place, 1889. 17 pp., 12 x 8, pap.
- 402 **LOUISVILLE, NEW ALBANY & CHICAGO RY.** Agreement of Bondholders, dated Oct. 10th, 1896, and modification, dated Nov. 19th, 1896. N. Y., 1896. 11 + 3 pp., 9 x 6, pap.
- 449 —John T. Mills, Jr., vs. L., N. A. & C. Ry. Co., May Term, 1896, in equity: Report of the Receiver in compliance with the order of the Judge, of date Aug. 27th, 1896. W. H. McDoel. Note: Gives inventory of property and estimated receipts and expenditures from Aug. 25th, 1896 to Oct. 1st, 1896. no place, 1896. 10 pp., 9 x 6, pap.
- Statement, plan and agreement of Bondholders, dated Oct. 10th, 1896. (See Ae-365.)
- 404 **LOUISVILLE, ST. LOUIS & TEXAS RY.** First consolidated mortgage. no place, 1892. 29 pp., 9 x 6, pap.
- 403 **MACON & BRUNSWICK R. R.** George A. Cunningham, Appellant, vs. the M. & B. R. R. Co. *et al.*, Appellees: Brief of Counsel for Appellees. Clifford Anderson. no place, 1896. 3 pp., 9 x 6, pap.
- 248 **MARQUETTE & ONTONAGON R. R.** Before the Hon. Willis Drummond, Commissioner of the General Land Office: Argument for the Bay de Noquet & Marquette R. R. Co. and the M. & O. R. R. Co., Mar., 1872. H. R. Selden and J. J. Storrow. Bost., 1872. 5 + 66 pp., 11 x 7, pap.
- MEMPHIS & CHARLESTON R. R.** Reorganization plan and agreement, dated Apr. 27th, 1896. (See Ae-123.)
- 450 **MEXICAN NATIONAL RY.** Agreement of Oct. 15th, 1886, as ratified by the parties named in Article Nineteenth. Matheson & Co. and W. J. Palmer. Note: Agreement relates to sale and reorganization of the M. N. Ry. Co. no place, 1886. 23 pp., 11 x 7, pap.
- 470 —Main concession, Sept. 13th, 1880, of the Mexican National Construction Co., Palmer-Sullivan contract, as reformed and modified by the law of Jan. 11th, 1883. Mexico—Congress. Note: Concession granted Mexican National Construction Co. to build two lines of railway, one from Mexico to the Pacific, and one to the northern frontier. N. Y., 1883. 35 pp., 9 x 6, pap.
- 468 **MICHIGAN CENTRAL R. R.** Agreement, Dec., 1882. M. C. R. R. Co. and Canada Southern Ry. Co. N. Y., 1882. 19 pp., 9 x 6, pap.
- 462 **MICHIGAN SOUTHERN & NORTHERN INDIANA R. R.** Supreme Court, City and County of New York; Addison G. Jerome against the M. S. & N. I. R. R. Co. and others; answer of the M. S. & N. I. R. R. Co. J. P. Sinnott. Note: Suit relates to the right of the Michigan Southern R. R. Co. to consolidate with the Northern Indiana R. R. Co. N. Y., 1864. 31 pp., 10 x 7, pap.

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- 460 —Supreme Court; John S. Prouty agst. the M. S. & N. I. R. R. Co.; motion for injunction on dividend: Defendants' points. J. P. Sinnott. no place, no date. 17 pp., 11 x 7, pap. no title-page.
- 348 **MILWAUKEE & MINNESOTA R. R.** Supreme Court of the United States, No. 198; Greene C. Bronson and James T. Soutter, Trustees, Complainants and Appellants, vs. the La Crosse & Milwaukee R. R. Co., the M. & M. R. R. Co., *et al.*, Defendants: Motion on behalf of Isaac Seymour, F. P. James and N. A. Cowdrey, for leave to intervene and have the appeal dismissed. J. S. Black. N. Y., 1862. 22 pp., map, 10 x 7, pap.
- 325 **MILWAUKEE & PRAIRIE DU CHIEN RY.** Amendments to Articles of Association, adopted Dec. 4th, 1867. no place, 1867. 9 pp., 9 x 6, pap.
- 324 —Documents relating to the organization of the M. & P. du C. Ry. Co. N. Y., 1861. 75 pp., 9 x 6, pap.
- 401 **MILWAUKEE & ST. PAUL RY.** Documents relating to the organization of the M. & St. P. Ry. Co. N. Y., 1863. 47 pp., 9 x 6, pap.
- 400 —To Charles Moran, Russell Sage, and William H. Neilson: Deed of trust or mortgage, dated Dec. 31st, 1867. no place, 1867. 32 pp., 9 x 6, pap.
- 399 —U. S. Circuit Court, Southern District of New York; in equity; William Barnes & Aaron S. Bright vs. the M. & St. P. Ry. Co.: Cross bills; argument on motion for injunction in behalf of Mr. Barnes. Francis Fellowes. Note: Suit relates to the foreclosure of the mortgage on the La Crosse R. R. Co., and the sale of the road to the M. & St. P. Ry. Co. no place, no date. 74 pp., 9 x 6, pap.
- MILWAUKEE, LAKE SHORE & WESTERN R. R.** First mortgage. N. Y., 1872. 37 pp., map, 9 x 6, b. p. Aa-80, p. 741.
- 305 —Mortgage, or deed of trust, to Frederick Schuchardt and Gordon Norrie, Trustees. Milwaukee, 1873. 18 pp., 9 x 6, b. p.
- 427 **MILWAUKEE, WAUKESHA & MISSISSIPPI RIVER R. R.** Acts incorporating the M., W. & M. R. R. Co.; together with a report of the Committee relating to a plan of operations, adopted by the Board of Directors, Milwaukee, May 19th, 1849. Milwaukee, 1849. 20 pp., 8 x 5, pap.
- MINNESOTA CENTRAL RY.** Compilation of acts of the Legislature and of Congress relating to the M. C. Ry. Co. 1866. (See Ag-451, Annual report, 1866, p. 29.)
- MISSOURI, KANSAS & TEXAS RY.** In the Circuit Court of the United States for the District of Kansas, in the Eighth Circuit; Union Trust Co., Complainant, against M., K. & T. Ry. Co. and the Missouri Pacific Ry. Co., Defendants; in equity: Brief of the M., K. & T. Ry. Co. on the subject of compound interest, and opinion of the Court. Simon Sterne. Note: Suit brought to foreclose mortgage. no place, 1890. 25 pp., 9 x 6, b. p. no title-page. Ad-271, p. 645.
- 327 —Reorganization agreement, dated Nov. 27th, 1889. no place, 1889. 15 pp., 9 x 6, pap.
- MISSOURI PACIFIC RY.** In the Circuit Court of the United States for the District of Kansas, in the Eighth Circuit; Union Trust Co., Complainant, against Missouri, Kansas & Texas Ry. Co. and the M. P. Ry. Co., Defendants; in equity: Brief of the Missouri, Kansas & Texas Ry. Co. on the subject of compound interest, and opinion of the Court. Simon Sterne. Note: Suit brought to foreclose mortgage. no place, 1890. 25 pp., 9 x 6, b. p. no title-page. Ad-271, p. 645.
- 398 **MORRIS & ESSEX R. R.** In Chancery of New Jersey: between the M. & E. R. R. Co., *et als.*, Compl'ts, and the New Jersey Midland Ry. Co., *et als.*, Def'ts: Cross bill, etc. Jacob Vanatta. Note: Suit relates to the right of the M. & E. R. R. to cross the tracks of the N. J. M. Ry. Co. N. Y., 1877. 44 pp., 9 x 6, pap.
- 328 —Mortgage from the M. & E. R. R. Co., to James Brown and Peter Cooper, Trustees for the Bondholders, dated July 16th, 1864. Newark, 1864. 17 pp., 9 x 6, pap.
- 321 **MT. CARMEL & NEW ALBANY R. R.** Charters of the Alton & Mt. Carmel and the Mt. C. & N. A. R. R. Companies. Alton, 1861. 35 pp., 9 x 6, pap.
- 331 **NEVADA PACIFIC RY.** Articles of consolidation and agreement between the Oregon Short Line Ry. Co., the Utah & Northern Ry. Co., the Utah Central Ry. Co., the Salt Lake & Western Ry. Co., the Utah & Nevada Ry. Co., the Ogden & Syracuse Ry. Co., the Idaho Central Ry. Co. and the N. P. Ry. Co. Bost., 1899. 24 pp., 9 x 6, pap.
- NEW HAVEN, MIDDLETOWN & WILLIMANTIC R. R.** Charter of the N. H., M. & W. R. R. Co., and all amendments and acts concerning the same. Connecticut-General Assembly. Bost., 1869. 26 pp., 9 x 6, b. p. Aa-80, p. 233.
- Convertible mortgage. Middletown, 1872. 11 pp., 9 x 6, b. p. Aa-80, p. 375.
- Facts relating to bonds guaranteed by various towns. Middletown, 1872. 15 pp., 9 x 6, b. p. Aa-80, p. 355.
- First mortgage. New Haven, 1870. 13 pp., 9 x 6, b. p. Aa-80, p. 315.
- Second mortgage. New Haven, 1870. 14 pp., 9 x 6, b. p. Aa-80, p. 335.
- 457 **NEW JERSEY.** General railroad law of the State of New Jersey, approved Apr. 2d, 1873. Trenton, 1873. 22 pp., 9 x 6, pap.

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- 898 **NEW JERSEY MIDLAND RY.** In Chancery of New Jersey; between the Morris & Essex R. R. Co., *et als.*, Compl'ts, and the N. J. M. Ry. Co., *et als.*, Def'ts: Cross bill, etc. Jacob Vanatta. Note: Suit relates to the right of the M. & E. R. R. to cross the tracks of the N. J. M. Ry. Co. N. Y., 1877. 44 pp., 9 x 6, pap.
- NEW LONDON, WILLIMANTIC & SPRINGFIELD R. R.** Engineer's report and charter. 1817. (See Ab-208.)
- 294 **NEW YORK & EASTERN R. R.** Argument delivered before the Legislative Committee on Railroads at New Haven, Conn., June 9th, 1874: On the petition of the N. Y. & E. R. R. Co. for authority to bridge the Housatonic River. W. D. Bishop. no place, 1874. 39 pp., 9 x 6, b. p. no title-page.
- NEW YORK & HARLEM R. R.** Report in regard to passenger fares and freights on the several railroads of the State; also contracts and leases of the New York & New Haven R. R. Co., N. Y. & H. R. R. Co., Hartford & New Haven R. R. Co., and Shore Line R. R. Co. Connecticut-Joint Standing Committee on Railroads. no date. (See Ah-33.)
- 299 **NEW YORK & MIDDLE COAL FIELD R. R. & COAL CO.** Charter and supplements. Pennsylvania-General Assembly. Phil., 1864. 7 pp., 9 x 6, pap.
- 805 **NEW YORK & NEW ENGLAND R. R.** Decree of the Court authorizing sale of car trust equipment, with inventory of same. American Loan & Trust Co., *et al.*, vs. N. Y. & N. E. R. R. Co., *et al.* no place, 1885. 37 pp., 9 x 6, b. p. no title-page.
- 294 —In the matter of the petition of Marshall Jewell and others for a special railroad charter: Statement presented to the Committee on Railroads, in behalf of the N. Y. & N. E. R. R. Co. and the Boston & New York Air Line R. R. Co. no place, no date. 6 pp., 9 x 6, b. p. no title-page.
- NEW YORK & NEW HAVEN R. R.** Report in regard to passenger fares and freights on the several railroads of the State, also contracts and leases of the N. Y. & N. H. R. R. Co., New York & Harlem R. R. Co., Hartford & New Haven R. R. Co., and Shore Line R. R. Co. Connecticut-Joint Standing Committee on Railroads. no date. (See Ah-33.)
- 492 **NEW YORK & NORTHERN RY.** Opinion of the Court in favor of the Appellants in the case of the Farmers' Loan & Trust Co., as Trustee, Respondent, vs. the N. Y. & N. Ry. Co. etc., Respondents, and Artemas H. Holmes and Alfred R. Pick, Appellants, being a reversal of judgments of General and Special Terms in foreclosure proceedings, and granting new trial; decision rendered Oct. 20th, 1896. New York State-Court of Appeals. no place, 1897. 32 pp., 9 x 6, cl.
- NEW YORK & OSWEGO MIDLAND R. R.** Certificate of incorporation of the New York, Ontario & Western R. R. Co. and deeds of transfer of the late N. Y. & O. M. R. R. Co. N. Y., 1880. 48 pp., 9 x 6, b. p. Aa-86, p. 371.
- NEW YORK CENTRAL & HUDSON RIVER R. R.** Agreement between the N. Y. C. & H. R. R. Co., Fall Brook Coal Co., Jersey Shore, Pine Creek & Buffalo Ry. Co., Philadelphia & Reading R. R. Co. and others, Feb. 4th, 1882. no place, 1882. pp. 131-165, 9 x 6, b. p. Ae-326, p. 423.
- 296 —Before the Interstate Commerce Commission: The Chicago & Alton R. R. Co. against the Pennsylvania Co.; the Chicago & Alton R. R. Co. against the Pennsylvania R. R. Co.; the Chicago, Rock Island & Pacific R. R. Co. against the N. Y. C. & H. R. R. Co.; tried June 16th and 17th, decided July 14th, 1887: Report of the Commission. no place, 1887. 17 pp., 9 x 6, b. p.
- 291 —Court of Appeals, State of New York: In the matter of the application of Lehigh Valley Ry. Co. for the appointment of commissioners to ascertain and determine the points and manner of crossing the tracks and lands of the N. Y. C. & H. R. R. Co., in the City of Buffalo: Appellant's brief. no place, 1883. 9 pp., 10 x 7, pap.
- 292 —In the matter of the application of Lehigh Valley Ry. Co. for the appointment of commissioners to ascertain and determine the points and manner of crossing the tracks and lands of the N. Y. C. & H. R. R. Co., in the City of Buffalo: Papers on appeal to the Court of Appeals from order of General Term affirming an order of the Special Term appointing commissioners. Buffalo, 1883. 92 pp., 9 x 6, pap.
- 293 —Supreme Court: In the matter of the application of the Lehigh Valley Ry. Co. for the appointment of commissioners to ascertain and determine the points and manner of crossing the tracks and lands of the N. Y. C. & H. R. R. Co., in the City of Buffalo: Testimony before the Commissioners. Buffalo, 1883. 683 pp., 11 x 8, pap.
- 454 **NEW YORK CENTRAL R. R.** Opinion of the Court in the case of the People *versus* the N. Y. C. R. R. Co. New York State-Supreme Court. Note: Suit brought to recover from the company, tolls upon the freight carried over the road since 1851. no place, no date. 6 pp., 9 x 6, pap. no title-page.
- NEW YORK CITY.** Agreements between the Mayor, Aldermen and Commonalty of the City of New York, and the Harlem, Hudson River, Sixth, Eighth, Second and Third Avenue R. R. Companies, relative to laying rails through the streets and avenues of the City. 1854. (See Bf-43.)

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- 346 **NEW YORK, LAKE ERIE & WESTERN R. R.** Funding coupon indenture, between the N. Y., L. E. & W. R. R. Co., and the Farmers' Loan & Trust Co. of New York, Trustee, dated Oct. 1st, 1885, funded coupon bonds of 1885. Phil., 1885. 13 pp., 10 x 7, pap.
- Plan and agreement for the reorganization of the Erie system including N. Y., L. E. & W. R. R. Co., New York, Pennsylvania & Ohio R. R. Co., Chicago & Erie R. R. Co.; dated Aug. 20th, 1895. C. H. Coster, Louis Fitzgerald and A. J. Thomas. 1895. (See Ae-410.)
- 296 **NEW YORK, NEW HAVEN & HARTFORD R. R.** Arbitration. N. Y., N. H. & H. R. R. Co. and Boston & New York Air Line R. R. Co. Note: Proceedings of meeting of arbitrators to determine the proportionate share of gross earnings which each company ought to receive. N. Y., 1880. 183 pp., 9 x 6, b. p.
- 294 — Argument before the Joint Committee on Railroads, against the proposed charter to Jared Redfield, Joseph A. Pool, *et al.*, for the construction of a railroad parallel with the Consolidated and New York & New England roads, from New York to Boston, and in behalf of the interests of the N. Y., N. H. & H. R. R. Co. Lynde Harrison. Hartford, 1882. 25 pp., 9 x 6, b. p. no title-page.
- 294 — Argument before the Joint Standing Committee on Railroads, in regard to the false returns of the N. Y., N. H. & H. R. R. Co. made to the Railroad Commissioners of Connecticut. W. C. Case. Note: Contains supplement by Henry L. Goodwin on, "Is swearing to false returns perjury?" Hartford, 1882. 15 pp., 9 x 6, b. p. no title-page.
- 294 — Argument before the Railroad Committee at the Capitol, upon the hearing concerning the petition for a parallel railroad, Mar. 3d, 1882. G. H. Watrous. Note: Petition for building a railroad parallel to the N. Y., N. H. & H. R. R. Co. no place, 1882. 88 pp., 9 x 6, b. p. no title-page.
- Copy of agreement made between the Boston & New York Air Line R. R. Co. and the N. Y., N. H. & H. R. R. Co., Mar. 21st, 1879. no place, 1879. 10 pp., 9 x 6, b. p. Aa-86, p. 507.
- 304 — Lease, Boston & New York Air Line R. R. Co. to N. Y., N. H. & H. R. R. Co. dated Aug. 1882. no place, 1882. 8 pp., 9 x 6, b. p. no title-page.
- NEW YORK, ONTARIO & WESTERN RY.** Certificate of incorporation. no place, 1880. 16 pp., 9 x 6, b. p. no title-page. Aa-82, p. 185
- Certificate of incorporation of the N. Y., O. & W. R. R. Co. and deeds of transfer of the late New York & Oswego Midland R. R. Co. N. Y., 1880. 48 pp., 9 x 6, b. p. Aa-86, p. 371.
- 330 — To Mercantile Trust Co., Trustee; first mortgage, \$4 000 000, dated Sept. 1st, 1884. N. Y., 1884. 34 pp., 9 x 6, pap.
- NEW YORK, PENNSYLVANIA & OHIO R. R.** Plan and agreement for the reorganization of the Erie system including New York, Lake Erie & Western R. R. Co., N. Y., P. & O. R. R. Co., Chicago & Erie R. R. Co.; dated Aug. 20th, 1895. C. H. Coster, Louis Fitzgerald and A. J. Thomas. 1895. (See Ae-410.)
- NEW YORK, PITTSBURGH & CHICAGO RY.** Prospectus; also a copy of its first mortgage. 1881. (See Ab-186.)
- 459 **NEW YORK STATE.** Legislative restrictions on the carrying trade of the railroads of the State of New York, viewed in connection with outside competition; addressed to the citizens of the City and State of New York. N. Y., 1880. 32 pp., 9 x 6, pap.
- 454 — Opinion of the Court in the case of the People *versus* the New York Central R. R. Co. New York State-Supreme Court. Note: Suit brought to recover from the company, tolls upon the freight carried over the road since 1851. no place, no date. 6 pp., 9 x 6, pap. no title-page.
- NORFOLK & WESTERN R. R.** Reorganization of the N. & W. R. R. Co.: Plan and agreement, dated Mar. 12th, 1896. (See Ae-124.)
- 432 **NORTHERN CENTRAL RY.** Acts of Assembly, and city and borough ordinances relating to the Pennsylvania R. R. Co., the Philadelphia & Erie R. R. Co., the N. C. Ry. Co. and other railroad, transportation and bridge companies, whose works are connections of those of said companies; also, some of the general railroad laws of the States of Pennsylvania, Virginia and Ohio; comp. for the Pennsylvania R. R. Co. by John H. Sloan. Phil., 1866. 694 + 57 + 96 pp., 9 x 6, pap.
- 499 **NORTHERN PACIFIC R. R.** Bondholders' reorganization agreement, dated Feb. 19th, 1894. N. Y., 1894. 8 pp., 10 x 7, pap.
- 468 — Charter, organization, proceedings, by-laws and appendix. Bost., 1865. 62 pp., tab., map, 9 x 6, pap.
- Reorganization, Mar. 16th, 1896. Note: Plan and agreement. (See Ae-419.)
- 331 **OGDEN & SYRACUSE RY.** Articles of consolidation and agreement between the Oregon Short Line Ry. Co., the Utah & Northern Ry. Co., the Utah Central Ry. Co., the Salt Lake & Western Ry. Co., the Utah & Nevada Ry. Co., the O. & S. Ry. Co., the Idaho Central Ry. Co., and the Nevada Pacific Ry. Co. Bost., 1889. 24 pp., 9 x 6, pap.

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- OHIO & MISSISSIPPI R. R.** Reports in relation to the closing of the trust of the O. & M. R. R. Co. and the organization of a new corporation, presented to certificate holders at a special meeting, Sept. 10th, 1887. (See Ae-380.)
- 312 **OHIO & MISSISSIPPI RY.** Powers of consolidated railway companies; being an argument in the case of Frederick P. Dimpfel *versus* the O. & M. Ry. Co., and others, in the United States Circuit Court for the Southern District of Illinois. C. W. Hassler. N. Y., 1879. 8 + 88 pp., 9 x 6, cl.
- 332 **OREGON RY. & NAVIGATION CO.** Agreement between the O. Ry. & N. Co. and the Oregon Short Line & Utah Northern Ry. Co. in regard to the Oregon Ry. Extensions Co., dated Jan. 8th, 1890. Bost., 1890. various pagings, 9 x 6, pap.
- Plan and agreement for reorganization. 1895. (See Ae-408.)
- 332 **OREGON RY. EXTENSIONS CO.** Agreement between the Oregon Ry. & Navigation Co. and the Oregon Short Line & Utah Northern Ry. Co. in regard to the O. Ry. E. Co., dated Jan. 8th, 1890. Bost., 1890. various pagings, 9 x 6, pap.
- 332 **OREGON SHORT LINE & UTAH NORTHERN RY.** Agreement between the Oregon Ry. & Navigation Co. and the O. S. L. & U. N. Ry. Co. in regard to the Oregon Ry. Extensions Co., dated Jan. 8th, 1890. Bost., 1890. various pagings, 9 x 6, pap.
- Plan and agreement for reorganization, dated Feb. 20th, 1896. (See Ae-421.)
- 331 **OREGON SHORT LINE RY.** Articles of consolidation and agreement between the O. S. L. Ry. Co., the Utah & Northern Ry. Co., the Utah Central Ry. Co., the Salt Lake & Western Ry. Co., the Utah & Nevada Ry. Co., the Ogden & Syracuse Ry. Co., the Idaho Central Ry. Co., and the Nevada Pacific Ry. Co. Bost., 1899. 24 pp., 9 x 6, pap.
- PACIFIC R. R. (OF MISSOURI.)** In the Circuit Court of the United States, Eastern District of Missouri; George E. Ketchum, *et al.*, *vs.* the P. R. R., *et al.*; in equity: Petition for relief. F. A. Potts. Note: Litigation relates to the lease of the P. R. R. by the Atlantic & Pacific R. R. Co. Chic., 1876. 17 pp., 9 x 6, b. p. Zj-195, p. 185.
- 448 —In the Circuit Court of the United States, Eastern District of Missouri; George E. Ketchum, *et al.*, *vs.* the P. R. R., Robert L. Cutting, Jr., Peter Marie and others; in equity: Statement of facts and argument on petition for an appeal. Henry Crawford. Note: Relates to foreclosure of the mortgage. N. Y., 1876. 32 pp., 10 x 7, pap.
- In the Supreme Court of the United States, Oct. Term, 1876, *ex parte* Robert L. Cutting, Jr., and others, Petitioners, against the Judges of the Circuit Court of the United States for the Eastern District of Missouri: Petition for mandamus, statement and argument for petitioners. Henry Crawford. Note: Litigation relates to the lease of the P. R. R. by the Atlantic & Pacific R. R. Co. Chic., 1876. 48 pp., 9 x 6, b. p. Zj-195, p. 57.
- 347 **PADUCAH, TENNESSEE & ALABAMA R. R.** To St. Louis Trust Co.; first mortgage; extension to Lexington, Tenn. no place, 1892. 30 pp., 10 x 6, pap.
- 333 **PANAMA R. R.** Contract between the Republic of New Granada and the P. R. R. Co.; tr. fr. the Spanish by Antonio Artells. Note: Text in English and Spanish. N. Y., 1866. 67 pp., 9 x 6, pap.
- PARIS & DANVILLE R. R.** Statement of facts and points for the Farmers' Loan and Trust Co.; Malcolm C. Turner, *et al.*, *vs.* Indianapolis, Bloomington & Western Ry. Co., *et al.*; intervening petition of the P. & D. R. R. Co.; United States Circuit Court, Southern District of Illinois, and District of Indiana. R. E. Williams. no place, no date. 12 pp., 9 x 6, b. p. no title-page. Zj-195, p. 188.
- PENINSULA R. R. OF MICHIGAN.** Exhibit of the route and resources of the railroad, comprised in report of Special Committee, report of Engineer, and organic and special laws. 1865. (See Ab-168.)
- PENNSYLVANIA.** Argument before the Committee on Railroads of the House of Representatives of Pennsylvania, upon the bill presented by Mr. Hulings of Venango County, to prevent unjust discrimination by railroad companies, Feb. 13th, 1883. F. B. Gowen. Phil., 1883. 32 pp., 9 x 6, b. p. Ab-455, p. 287.
- Argument on the Anti-Discrimination Bill pending before the Judiciary (General) Committee of the Senate of Pennsylvania. J. P. Green. Phil., 1885. 21 pp., 9 x 6, b. p. Ae-399, p. 1.
- Remarks before the Judiciary (General) Committee of the Senate of Pennsylvania on the Anti-Discrimination Bill, Apr. 9th, 1885. G. B. Roberts. Phil., 1885. 23 pp., 9 x 6, b. p. Ae-399, p. 25.
- 379 **PENNSYLVANIA & NEW YORK CANAL & R. R. CO.** Lease of the State Line & Sullivan R. R. Co. to the P. & N. Y. Canal & R. R. Co. no place, 1884. 16 pp., 9 x 6, pap.
- 360 **PENNSYLVANIA CO.** Agreement between the Grand Rapids & Indiana R. R. Co., the Continental Improvement Co., the Pennsylvania R. R. Co. and the Pennsylvania Co., dated Dec. 1st, 1875. Phil., 1875. 7 pp., 9 x 6, pap.

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- 298 — Before the Interstate Commerce Commission: the Chicago & Alton R. R. Co. against the Pennsylvania Co.; the Chicago & Alton R. R. Co. against the Pennsylvania R. R. Co.; the Chicago, Rock Island & Pacific R. R. Co. against the New York Central & Hudson River R. R. Co.; tried June 16th and 17th, 1887, decided July 14th, 1887: Report of the Commission. no place, 1887. 17 pp., 9 x 6, b. p.
- Contract between the Chicago, Rock Island & Pacific R. R. Co. and the Pennsylvania Co. with reference to joint traffic over the Plymouth, Kankakee & Pacific R. R. Note: Contains also contract between the P., K. & P. R. R. Co. and the Pennsylvania Co. for equipping and operating the road of the first named company. N. Y., 1871. 11 pp., 9 x 6, b. p. Ag-305, p. 589.
- 439 — Corporate history of the Pittsburgh, Fort Wayne & Chicago Ry. Co., together with the mortgages, leases, deeds and agreements of that corporation, assumed by the Pennsylvania Co. and in force Aug. 1st, 1875. Pittsburg, 1875. 485 + 64 + 18 pp., 9 x 6, ro.
- 298 — Inter-state Commerce Commission; involving the question of paying passenger commissions; complaint of the Chicago & Alton R. R. Co.; answer of the Pennsylvania Co., and argument for the Respondent, by Geo. R. Blanchard; hearing at Washington, D. C., June 10th, 1887. Chic., 1887. 50 pp., 9 x 6, b. p.
- 432 PENNSYLVANIA R. R. Acts of Assembly, and city and borough ordinances relating to the P. R. R. Co., the Philadelphia & Erie R. R. Co., the Northern Central Ry. Co. and other railroad, transportation and bridge companies, whose works are connections of those of said companies; also, some of the general railroad laws of the States of Pennsylvania, Virginia and Ohio; comp. for the P. R. R. Co. by John H. Sloan. Phil., 1866. 694 + 57 + 96 pp., 9 x 6, pap.
- 360 — Agreement between the Grand Rapids & Indiana R. R. Co., the Continental Improvement Co., the P. R. R. Co. and the Pennsylvania Co., dated Dec. 1st, 1875. Phil., 1875. 7 pp., 9 x 6, pap.
- Amended lease and contract between the Columbus, Chicago & Indiana Central Ry. Co., the Pittsburgh, Cincinnati & St. Louis Ry. Co., and the P. R. R. Co. Columbus, 1871. 13 pp., 9 x 6, b. p. Ag-305, p. 521.
- 298 — Before the Interstate Commerce Commission: The Chicago & Alton R. R. Co. against the Pennsylvania Co.; the Chicago & Alton R. R. Co. against the P. R. R. Co.; the Chicago, Rock Island & Pacific R. R. Co. against the New York Central & Hudson River R. R. Co.; tried June 16th and 17th, 1887, decided July 14th, 1887: Report of the Commission. no place, 1887. 17 pp., 9 x 6, b. p.
- "Columbus, Chicago & Indiana Central" and the P. R. R. guarantee. N. Y., 1875. 24 pp., 9 x 6, b. p. Aa-82, p. 201.
- 410 — Lease and contract between the Columbus, Chicago & Indiana Central Ry. Co., the Pittsburgh, Cincinnati & St. Louis Ry. Co., and the P. R. R. Co. Columbus, 1869. 16 pp., 9 x 6, pap.
- Same. N. Y., 1869. 20 pp., 9 x 6, b. p. Ag-305, p. 541.
- 471 — Philadelphia & Erie R. R. Co., *et al.*, vs. the Catawissa R. R. Co., *et al.*, and Andrew Scott vs. the Atlantic & Gt. West. Ry. Co., *et al.*; in the Supreme Court of Pennsylvania, Eastern District; Nos. 28 and 40, Jan. Term, 1866: Arguments for Defendants. G. W. Biddle and others. Note: Case relates to the lease of the C. R. R. to the A. & G. W. Ry. Co. Phil., 1866. 126 + 37 pp., 9 x 6, pap.
- 473 — Philadelphia & Erie R. R. Co., *et al.*, vs. the Catawissa R. R. Co., *et al.*; in the Supreme Court of Penn'a, Eastern District, Jan. Term, 1866: Opinion of Court, and decree. Woodward. Note: Case relates to the lease of the Catawissa R. R. to the Atlantic & Great Western Ry. Co. Phil., 1866. 12 pp. 9 x 6, pap.
- 433 — Pittsburgh, Fort Wayne & Chicago Ry. Co. to the P. R. R. Co.; lease, dated June 7th, 1869. N. Y., 1869. 40 pp., 9 x 6, pap.
- 472 — Report of the Examiner, appointed Mar. 28th, 1866, to take testimony in the cases of the Philadelphia & Erie R. R. Co., *et al.*, vs. the Catawissa R. R. Co., *et al.*, and Andrew Scott vs. the Atlantic & Gt. West. Ry. Co., *et al.*; in the Supreme Court of Pennsylvania, Eastern District, Nos. 28 and 40, Jan. Term, 1866. George Bull. Note: Report relates to rates on freight. Phil., 1866. 95 pp., 9 x 6, pap.
- 334 PEOPLE'S PACIFIC R. R. Charter, organization, address of the President, Josiah Perham, with the by-laws of the Board of Commissioners. Bost., 1860. 24 pp., 9 x 6, pap.
- 432 PHILADELPHIA & ERIE R. R. Acts of Assembly, and city and borough ordinances relating to the Pennsylvania R. R. Co., the P. & E. R. R. Co., the Northern Central Ry. Co. and other railroad, transportation and bridge companies, whose works are connections of those of said companies; also, some of the general railroad laws of the States of Pennsylvania, Virginia and Ohio; comp. for the Pennsylvania R. R. Co. by John H. Sloan. Phil., 1866. 694 + 57 + 96 pp., 9 x 6, pap.

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- 471 — *Et al., vs. the Catawissa R. R. Co., et al., and Andrew Scott vs. the Atlantic & Gt. West. Ry. Co., et al.*; in the Supreme Court of Pennsylvania, Eastern District; Nos. 28 and 40, Jan. Term, 1866: Arguments for Defendants. G. W. Biddle and others. Note: Case relates to the lease of the C. R. R. to the A. & G. W. Ry. Co. Phil., 1866. 126 + 87 pp., 9 x 6, pap.
- 473 — *Et al., vs. the Catawissa R. R. Co., et al.; Andrew Scott vs. the Atlantic & Gt. West. Ry. Co., et al.*; in the Supreme Court of Penn'a. Eastern District, Jan. Term, 1866: Opinion of Court, and decree. Woodward. Note: Case relates to the lease of the Catawissa R. R. to the Atlantic & Great Western Ry. Co. Phil., 1866. 12 pp., 9 x 6, pap.
- 472 — Report of the Examiner, appointed Mar. 28th, 1866, to take testimony in the cases of the P. & E. R. R. Co., *et al.*, vs. the Catawissa R. R. Co., *et al.*, and Andrew Scott vs. the Atlantic & Gt. West. Ry. Co., *et al.*; in the Supreme Court of Pennsylvania, Eastern District, Nos. 28 and 40, Jan. Term, 1866. George Bull. Note: Report relates to rates on freight. Phil., 1866. 95 pp., 9 x 6, pap.
- PHILADELPHIA & READING R. R.** Agreement between the New York Central & Hudson River R. R. Co., Fall Brook Coal Co., Jersey Shore, Pine Creek & Buffalo Ry. Co., P. & R. R. Co., and others, Feb. 4th, 1882. no place, 1882. pp. 131-166, 9 x 6, b. p. Ae-396, p. 423.
- 389 — Agreement of Creditors and Stockholders with the Board of Reconstruction Trustees of the P. & R. R. Co., and the P. & R. Coal & Iron Co. Note: Contains plan of reorganization. Phil., 1896. 27 pp., 9 x 6, pap.
- Copy of lease from the Lehigh Valley R. R. Co. to the P. & R. R. Co. 1893. (See Ag-221, Annual Report, 1892, p. 15.)
- Court of Common Pleas, No. 2; *Shelmerdine vs. Welsh, et al.*; motion for an injunction: Opinion by the presiding judge. Hare. Note: Relates to the power of the voting trustees appointed under the reorganization of the P. & R. R. Co. in 1887. no place, 1890. newspaper slip, b. p. Bf-94, p. 237.
- 443 — Election, Jan., 1881: Arguments of Counsel for Messrs. McCalmont Brothers & Co. before United States Circuit Court, at Pittsburg, Jan., 1881, and Court of Common Pleas, of Philadelphia County, at Philadelphia, Jan., 1881, with the decisions of Judge McKenna and Judge Allison. J. C. Bullitt and others. Note: Arguments relate to the right of the Board of Managers to order the annual meeting of the Company postponed to six weeks after the usual time. N. Y., 1881. 78 pp., 9 x 6, pap.
- 444 — In the Circuit Court of the United States, for the Eastern District of Pennsylvania; *Thomas C. Platt vs. the P. & R. R. Co., et al.*: Petition of Isaac L. Rice for leave to intervene, &c. Nathan Bijur. N. Y., 1893. 51 pp., 9 x 6, pap.
- 335 **PHILADELPHIA, WILMINGTON & BALTIMORE R. R.** Laws incorporating the P., W. & B. R. R. Co. of the State of Pennsylvania; the Wilmington & Susquehanna R. R. Co. of the State of Delaware; the Delaware and Maryland R. R. Co. of the State of Maryland; the Baltimore & Port Deposit R. R. Co. of the State of Maryland; as enacted by the different Legislatures of those states; together with the articles of union, between the Wilmington & Susquehanna and the Delaware & Maryland R. R. Companies. Phil., 1886. 69 pp., 9 x 6, pap.
- 336 **PITTSBURGH, CHARTIERS & YOUGHIOGHENY RY.** General mortgage: P., C. & Y. Ry. Co., to Fidelity Title & Trust Co., Trustee, \$1 000 000, dated April 1st, 1892. no place, 1892. 20 pp., 9 x 6, pap.
- 305 **PITTSBURGH, CINCINNATI & ST. LOUIS RY.** Agreement between the Columbus, Chicago & Indiana Central Ry. Co., the P., C. & St. L. Ry. Co. and the Chicago, Danville & Vincennes R. R. Co., Nov. 18th, 1871. Pittsburg, 1871. 12 pp., 9 x 6, b. p.
- Agreement of consolidation of the P., C. & St. L. Ry. Co., Chicago, St. Louis & Pittsburgh R. R. Co., the Cincinnati & Richmond R. R. Co., and Jeffersonville, Madison & Indianapolis R. R. Co. Note: The consolidation effected by this agreement formed the Pittsburgh, Cincinnati, Chicago & St. Louis Ry. Co. no place, no date. 16 pp., 9 x 6, b. p. no title-page. Aa-85, p. 161.
- Amended lease and contract between the Columbus, Chicago & Indiana Central Ry. Co., the P., C. & St. L. Ry. Co., and the Pennsylvania R. R. Co. Columbus, 1871. 13 pp., 9 x 6, b. p. Ag-305, p. 521.
- 294 — In the Circuit Court of the United States, District of Indiana; the P., C. & St. L. Ry. Co. vs. the Columbus, Chicago & Indiana Central Ry. Co., *et al.*; Roosevelt and Fosdick, Trustees, vs. the P., C. & St. L. Ry. Co., *et al.*: Bill and cross-bill in Chancery; argument of Counsel for Complainants, before Associate Justice Harlan, of the Supreme Court of the United States, at Newport, R. I., Aug. 14th and 15th, 1878. Stanley Matthews. Note: Case relates to the annulment of the lease of the C., C. & I. C. Ry. Co. held by the Complainant. Phil., 1878. 192 pp., 9 x 6, b. p.
- 294 — In the Circuit Court of the United States, District of Indiana; the P., C. & St. L. Ry. Co. versus the Columbus, Chicago & Indiana Central R. R. Co., *et al.*; Roosevelt and Fosdick, Receivers and Trustees, versus the P., C. & St. L. Ry. Co., *et al.*: Bill and cross-bill in Chancery; brief for Complainant. Matthews, Ramsey & Matthews. Note: Case relates to the annulment of lease of C., C. & I. C. R. R. Co. held by Complainant. Cin., no date. 94 pp., 9 x 6, b. p.

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- 410 — Lease and contract between the Columbus, Chicago & Indiana Central Ry. Co., the P., C. & St. L. Ry. Co., and the Pennsylvania R. R. Co. Columbus, 1869. 16 pp., 9 x 6, pap.
— Same. N. Y., 1869. 20 pp., 9 x 6, b. p. Ag-305, p. 541.
- PITTSBURGH, CINCINNATI, CHICAGO & ST. LOUIS RY.** Agreement of consolidation of the Pittsburgh, Cincinnati & St. Louis Ry. Co., Chicago, St. Louis & Pittsburgh R. R. Co., the Cincinnati & Richmond R. R. Co., and Jeffersonville, Madison & Indianapolis R. R. Co. Note: The consolidation effected by this agreement formed the P., C., C. & St. L. Ry. Co. no place, no date. 16 pp., 9 x 6, b. p. no title-page. Aa-86, p. 161.
- 451 **PITTSBURGH, FORT WAYNE & CHICAGO R. R.** Exhibit of the P., F. W. & C. R. R. Co., relating to the Fort Wayne & Chicago R. R. Co. first mortgage bonds, with the articles of consolidation and laws relating thereto. Pittsburg, 1856. 81 pp., 9 x 6, pap.
- 436 — Laws relating to the company, together with the by-laws and organization. Pittsburg, 1856. 87 pp., 9 x 6, pap.
- 441 **PITTSBURGH, FORT WAYNE & CHICAGO RY.** Compilation of laws, deeds, mortgages, leases and other instruments, and minutes of proceedings, affecting the company, together with a prefatory statement by the chairman. N. Y., 1875. 394 pp., 9 x 6, ¼ mor.
- 439 — Corporate history of the P., F. W. & C. Ry. Co., together with the mortgages, leases, deeds and agreements of that corporation assumed by the Pennsylvania Co. and in force Aug. 1st, 1875. Pittsburg, 1875. 485 + 64 + 18 pp., 9 x 6, ro.
- 452 — In the Supreme Court, in equity, July Term, 1869: *Carpenter vs. P., F. W. & C. Ry. Co.*: Answer of Respondent. Theodore Cuyler. no place, 1869. 8 pp., 9 x 6, pap.
- 453 — Statement of the Trustees relative to the reorganization, and laws and documents in connection therewith, and the new securities. N. Y., 1862. 95 pp., map, 9 x 6, pap.
- 433 — To the Pennsylvania R. R. Co.; lease, dated June 7th, 1869. N. Y., 1869. 40 pp., 9 x 6, pap.
- PLYMOUTH, KANKAKEE & PACIFIC R. R.** Contract between the Chicago, Rock Island & Pacific R. R. Co. and the Pennsylvania Co. with reference to joint traffic over the P., K. & P. R. R. Note: Contains also contract between the P., K. & P. R. Co. and the Pennsylvania Co. for equipping and operating the road of the first named company. N. Y., 1871. 11 pp., 9 x 6, b. p. Ag-306, p. 589.
- 387 **POUGHKEEPSIE & EASTERN R. R.** First mortgage seven per cent. convertible gold bonds, with statements, estimates, form of mortgage & bonds, &c. Poughkeepsie, 1871. 23 pp., map, 9 x 6, pap.
- 434 **RARITAN & DELAWARE BAY R. R.** State of New Jersey, in the Court of Errors and Appeals in the last resort in all causes; between the R. & D. B. R. R. Co. and the Camden & Atlantic R. R. Co., Appellants, and the Delaware & Raritan Canal and Camden & Amboy R. R. & Transportation Companies, Respondents: Appeal from decree in Chancery. Note: Case relates to the right of transportation of freight and passengers between New York and Philadelphia in the State of New Jersey by the D. & R. Canal Co. and C. & A. R. R. & Transportation Co. N. Y., 1866. 390 pp., 10 x 6, pap.
- 384 **RENSSELAER & SARATOGA R. R.** Lease of the property of the R. & S. R. R. Co. to the Delaware & Hudson Canal Co., May 1st, 1871. Troy, 1871. 26 pp., 9 x 6, pap.
- RICHMOND & DANVILLE R. R.** Plan and agreement for the reorganization of the Richmond & West Point Terminal Ry. & Warehouse Co., R. & D. R. R. Co. and system, East Tennessee, Virginia & Georgia Ry. Co. and system, dated May 1st, 1893. (See Ae-416.)
- 385 — To Central Trust Co. of New York; consolidated mortgage, dated Oct. 22d, 1886. no place, 1886. 23 pp., 9 x 6, pap.
- 386 — To Central Trust Co. of New York; supplemental agreement; consolidated five per cent. gold bonds, secured by mortgage, Oct. 22d, 1886. no place, 1886. 7 pp., 9 x 6, pap.
- RICHMOND & WEST POINT TERMINAL RY. & WAREHOUSE CO.** Plan and agreement for the reorganization of the R. & W. P. T. Ry. & Warehouse Co., Richmond & Danville R. R. Co. and system, East Tennessee, Virginia & Georgia Ry. Co. and system, dated May 1st, 1893. (See Ae-416.)
- 428 **RUTLAND & BURLINGTON R. R.** In Chancery, Rutland County, March Term, A. D. 1864; copy of bill of complaint, subpoena, exhibits and writ of injunction. James Cheever and W. T. Hart, Trustees, *et al.*, vs. The R. & B. R. R. Co., E. A. Birchard and J. W. Stewart, Trustees, *et al.* Note: Suit brought to prevent the Defendants from using the funds of the Company without the consent of the Complainants. Bost., 1864. various pagings, 10 x 8, pap.

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- 431 —James Cheever, *et al.*, vs. the R. & B. R. R. Co., *et al.*: Answer. Note: Suit brought to prevent the Defendants from using the funds of the Company without the consent of the Complainants. E. A. Birchard and J. W. Stewart. no place, 1868. 22 pp., 10 x 7, pap.
- 429 **ST. CROIX & LAKE SUPERIOR R. R.** Acts of Legislature of Wisconsin, and of the Congress of the United States, relative to the St. C. & L. S. R. R. Co. N. Y., 1865. 30 pp., 9 x 6, pap.
- 456 —Acts of the Legislature of Wisconsin, and of the Congress of the United States, relative to the St. C. & L. S. R. R. Co. with the statement of the President and Directors, and of the Chief Engineer of said company. N. Y., 1866. 157 pp., 9 x 6, pap.
- 430 —Compilation of the several acts of the Legislature of Wisconsin applying to the St. C. & L. S. R. R. Co. together with the articles of agreement between the La Crosse & Milwaukee and St. C. & L. S. R. R. Companies, and the deed of trust. Milwaukee. 1868. 67 pp., 9 x 6, pap.
- 398 **ST. JOSEPH & DENVER CITY R. R.** Western Division; mortgage deed of trust on railroad property and franchises from Marysville, Kansas, to Fort Kearney, Nebraska; executed to the Farmers' Loan & Trust Co. of New York, May 14th, 1870: First mortgage sinking fund land grant railroad bonds. no place, 1870. 40 pp., 9 x 6, pap.
- 392 **ST. JOSEPH & GRAND ISLAND R. R.** First mortgage, six per cent. gold bonds: Bondholders' agreement; depositaries, Central Trust Co. of New York, Old Colony Trust Co. of Boston. no place, 1885. 15 pp., 9 x 6, pap.
- 445 **ST. LOUIS, ALTON & TERRE HAUTE R. R.** Against Charles Butler, Samuel J. Tilden, Russell Sage and Robert Bayard: Statement of facts. Note: Suit to recover securities belonging to the St. L., A. & T. H. R. R. Co. no place, 1876. 42 pp., 11 x 7, pap. no title-page.
- 305 —Brief for Appellees, Supreme Court of the United States, October Term, 1887; the St. L., A. & T. H. R. R. Co., Appellant, vs. the Cleveland, Columbus, Cincinnati & Indianapolis R. R. Co., *et al.*, Appellees. J. T. Dye. Note: Appeal from the Circuit Court of the United States for the District of Indiana. no place, 1888. 18 pp., 9 x 6, b. p.
- 446 —U. S. Circuit Court, Southern District of New York; Charles Butler, Samuel J. Tilden, Russell Sage and Robert Bayard, *ads.* the St. L., A. & T. H. R. R. Co.: Answer of Defendants. J. P. Sinnott. Note: Suit to recover securities belonging to the railroad company. N. Y., 1876. 124 pp., 11 x 7, pap.
- vs. Charles Butler, Samuel J. Tilden, Russell Sage and Robert Bayard: Statement of Special Committee appointed to investigate charges made in regard to the management and affairs of the Company. Thomas Denny, J. S. Barnes and W. B. Cutting. 1876. (See Ae-109.)
- ST. LOUIS & SAN FRANCISCO RY.** Plan and agreement for reorganization, dated Apr. 21st, 1896. (See Ae-418.)
- ST. LOUIS, IRON MOUNTAIN & SOUTHERN RY.** Statement of facts by the Attorneys of the Plaintiff and Defendants; with opinion of the Court. Little Rock & Memphis R. R. Co. vs. St. L., I. M. & S. Ry. Co., Hot Springs R. R. Co. and J. N. Conger. Note: Suit relates to the power of a Court of Equity to compel a railroad company to enter into a contract with another company for a joint through rate or joint through routing of freight and passengers. no place, no date. 10 pp., 9 x 6, b. p. no title-page. Aa-79, p. 177.
- ST. LOUIS—KANSAS CITY SHORT LINE RY.** Statement, charter, franchises, route, etc. Columbia, Mo., 1886. 48 pp., map, 9 x 6, b. p. Ab-466, p. 447.
- 531 **SALT LAKE & WESTERN RY.** Articles of consolidation and agreement between the Oregon Short Line Ry. Co., the Utah & Northern Ry. Co., the Utah Central Ry. Co., the S. L. & W. Ry. Co., the Utah & Nevada Ry. Co., the Ogden & Syracuse Ry. Co., the Idaho Central Ry. Co., and the Nevada Pacific Ry. Co. Bost., 1883. 24 pp., 9 x 6, pap.
- 801 **SHEPAUG, LITCHFIELD & NORTHERN R. R.** State of Connecticut, Superior Court, Fairfield County; finding of facts. W. H. Starbuck, *et al.*, vs. Mercantile Trust Co., *et als.* and J. A. Bostwick, *et al.*, vs. G. D. Chapman, *et als.* Note: Case relates to forming of syndicate to control the S. L. & N. R. R. Co. New Haven. 1891. 54 pp., 9 x 6, b. p. no title-page.
- SHORE LINE R. R.** Report in regard to passenger fares and freights on the several railroads of the State; also contracts and leases of the New York & New Haven R. R. Co., New York & Harlem R. R. Co., Hartford & New Haven R. R. Co., and S. L. R. R. Co. Connecticut-Joint Standing Committee on Railroads. no date. (See Ah-83.)
- 383 **SOUTH CAROLINA & GEORGIA R. R.** To Central Trust Co. of New York, Trustee: First mortgage, dated May 12th, 1894. N. Y., 1894. 28 pp., 9 x 6, pap.
- 394 **SOUTH CHICAGO AND WESTERN INDIANA R. R.** Indenture of lease; S. C. & W. I. R. R. Co. to Chicago and Eastern Illinois R. R. Co., dated Dec. 1st, 1880. no place, 1880. 24 pp., 9 x 6, b. p.

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- SOUTH SIDE R. R.** Facts pertinent to the status of the first mortgage bonds of the S. S. R. R. Co.; their value and security. 1866. (See Ae-379.)
- 381 **SOUTHERN RY.** First consolidated mortgage deed: S. Ry. Co. to Central Trust Co. of New York, Trustee, dated Oct. 2d, 1894. N. Y., 1891. 97 pp., 9 x 6, pap.
- SOUTHWESTERN R. R.** Charter with amendments. 1869. (See Ag-311, p. 68.)
- SPRINGFIELD, DECATUR & INDIANAPOLIS RY.** Articles of consolidation between the Indianapolis, Decatur & Springfield Ry. Co. and the S., D. & I. Ry. Co. N. Y., 1875. 14 pp., 9 x 6, b. p. Aa-86, p. 609.
- 379 **STATE LINE & SULLIVAN R. R.** Lease of the S. L. & S. R. R. Co. to the Pennsylvania & New York Canal & R. R. Co. no place, 1894. 16 pp., 9 x 6, pap.
- 378 **SYRACUSE & UTICA R. R.** Remonstrance of the S. & U. R. R. Co. against a bill to reduce their fare. Note: Memorial to the Legislature of the State of New York. no place, 1851. 7 pp., 9 x 6, pap.
- TENNESSEE.** Tennessee railroads: Address to the Joint Railroad Committee of the 44th General Assembly of Tennessee, by the President, Nashville, Chattanooga & St. Louis Ry., Feb. 18th, 1885. J. W. Thomas. Note: Address relates to a bill before the General Assembly regulating railroad rates. Nashville, 1885. 13 pp., 9 x 6, b. p. Ah-76, p. 587.
- TERRE HAUTE, ALTON & ST. LOUIS R. R.** Report of A. C. Flagg, Trustee and surviving Receiver, to the Bondholders, giving detailed statements of the receipts and expenditures of William D. Griswold, Agent, from Dec. 12th, 1859, to June 30th, 1862; together with sundry documents. 1863. (See Ag-462.)
- 465 **TERRE HAUTE & PEORIA R. R.** Bondholders' agreement. no place, 1896. 10 pp., 10 x 6, pap. no title-page.
- 388 **TEXAS & PACIFIC RY.** Statement and agreement and accompanying papers, presented to the Senate and House Committees on Railroads. F. S. Bond. Note: Argument in favor of a bill loaning the credit of the Government to the T. & P. Ry. Co. to aid in the construction of the road. no place, 1876. 16 + 29 pp., 9 x 6, b. p.
- 376 **TOLEDO & OHIO CENTRAL EXTENSION R. R.** Bondholders' agreement. Note: Holders of first mortgage bonds. no place, 1895. unpag., 13 x 8, pap.
- TOLEDO, WABASH & WESTERN RY.** Petition praying that decree of sale be set aside; Metropolitan National Bank of the City of New York and others, vs. the T., W. & W. Ry. Co., and others. Note: Suit brought to foreclose mortgage. no place, no date. 28 pp., 9 x 6, b. p. Zj-195, p. 473.
- 394 **TOMAH & LAKE ST. CROIX R. R.** Compilation of the several Acts of Congress, and of the Legislature of Wisconsin, applying to the company, etc. N. Y., 1867. 34 pp., map, 9 x 6, pap.
- 377 **TONAWANDA VALLEY & CUBA R. R.** Agreement between Oliver S. Carter, Walter S. Johnston and Sumner R. Stone, Trustees, and the Bondholders of the T. V. & C. R. R. Co., Feb. 16th, 1887. no place, 1887. 4 pp., 13 x 8, pap.
- 416 **UNION PACIFIC R. R.** Acts of Congress relating thereto, and amendments; by-laws of the company, and mortgages executed for the security of the first mortgage, land grant, income, bridge, and sinking fund bonds. Bost., 1874. 129 pp., 9 x 6, pap.
- 440 — Acts relating to and affecting the Union and Central Pacific R. R. Companies and their branches. U. S.—Congress. no place, 1883. 108 pp., 9 x 6, cl.
- 305 — Argument of Counsel on behalf of the U. P. R. R.; made to the Committee on the Judiciary of the Senate. B. R. Curtis and Sidney Bartlett. Note: Relates to the obligation of the company to pay the interest on the bonds issued by the United States in aid of the construction of its railroad. no place, 1870. 29 pp., 9 x 6, b. p.
- 417 — Articles of union and consolidation of the U. P. R. R. Co., the Kansas Pacific Ry. Co., and Denver Pacific Ry. & Telegraph Co. into the Union Pacific Ry. Co., dated Jan. 24th, 1880; and the by-laws of the Union Pacific Ry. Co. Bost., 1884. 16 pp., 9 x 6, pap.
- Brief for Defendant, Supreme Judicial Court; in equity; U. P. R. R. Co. v. Credit Mobilier of America. W. G. Russell and George Putnam. Note: Litigation over money spent in the construction of the road. no place, 1879. 58 pp., 10 x 7, b. p. Aj-52, p. 151.
- 308 — Charter, Credit Mobilier of America. Pennsylvania—General Assembly. N. Y., 1866. 8 pp., 9 x 6, b. p.
- 421 — Circuit Court of the United States for the Southern District of New York; James Fisk, Jr., vs. the U. P. R. R. Co., *et al.*: Opinion of the Court, Apr. 6th, 1869. Samuel Blatchford. N. Y., 1869. 37 pp., 11 x 7, pap.
- 442 — Circuit Court of the United States, Southern District of New York; James Fisk, Jr., against the U. P. R. R. Co., *et als.*: Motion papers. James Emmott & S. J. Tilden. N. Y., 1870. various pagings, 10 x 6, pap.
- 300 — Commonwealth of Pennsylvania vs. Credit Mobilier of America: Record. Phil., 1871. 188 pp., 9 x 6, b. p.

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- 301 —In the Circuit Court of the United States for the District of Connecticut; the United States of America, by George Henry Williams, their Attorney-General, *vs.* the U. P. R. R. Co., Henry Ingalls, Joseph Richardson and others: Opinion of the Court. Hunt. Note: Case relates to the issue, by the U. P. R. R. Co., of capital stock which has not been paid for in full by the recipient. no place, 1873. 19 pp., 9 x 6, b. p. no title-page.
- 420 —In the Circuit Court of the United States for the Southern District of New York, before Samuel Nelson and Samuel Blatchford, May 5th, 1870; James Fisk, Jr., *vs.* the U. P. R. R. Co. and others; motion by Defendants to dissolve injunction; motion by Plaintiff to take papers off the file: Argument for Defendants, in reply to Mr. Stoughton and Mr. Field. S. J. Tilden. N. Y., 1870. 24 pp., 11 x 7, pap.
- 438 —In the Circuit Court of the United States for the Southern District of New York; James Fisk, Jr., *agst.* the U. P. R. R. Co., *et al.*: Copy papers. Tracy and Olmstead. N. Y., 1869. 219 pp., 11 x 6, pap.
- 467 —In the Circuit Court of the United States for the Southern District of New York; James Fisk, Jr., Complainant, *vs.* the U. P. R. R. Co. and others, Defendants: Affidavits and decree of the Court. no place, 1870. 88 pp., 10 x 7, pap. no title-page.
- 418 —In the Circuit Court of the United States for the Southern District of New York; the United States *ex relatione* the U. P. R. R. Co., against the Justices of the Supreme Court of the State of New York, for the First Judicial District; points for Relator on application for mandamus. S. J. Tilden. N. Y., 1869. 14 pp., 11 x 7, pap.
- Indenture of trust: The U. P. R. R. sinking fund mortgage bond. no place, 1873. 21 pp., 9 x 6, b. p. Ah-77, p. 491.
- 415 —Memorandum in regard to the equity in the case between the Government and the U. P. R. R.; made at the request of some of the large holders of bonds of said road, who are not officers thereof. Edward Atkinson. no place, 1871. 22 pp., 9 x 6, pap. no title-page.
- 306 —Obligations of the Pacific railroad companies to the Government, relating to the bonds issued by the United States in aid of the construction of the U. P. R. R. and its branches, considered and submitted to the Committee on the Judiciary of the Senate of the United States. E. H. Nichols. Wash., 1871. 24 pp., 9 x 6, b. p.
- 447 —Pacific railroad: Acts and amendments, approved July 1st, 1862, Mar. 3d, 1863, July 2d, 1864, Mar. 3d, 1865, July 8d, 1866; carefully compiled from authenticated copies for the Central Pacific R. R. Co. U. S.-Congress. N. Y., 1868. 88 pp., 9 x 6, pap.
- Pacific railroad legislation, 1862-1885. 1885. (See A1-57.)
- 303 —Report of the Select Committee on evidence affecting certain members of the Senate, Feb. 27th, 1873. U. S.-Senate. (42d Cong., 3d Sess. Senate rep. No. 519.) Note: Relates to the investigation of the alleged bribery in connection with the construction of the U. P. R. R. Wash., 1873. 9 + 162 pp., 9 x 6, b. p. no title-page.
- 306 —Suggestions submitted to the Attorney-General of the United States on behalf of the U. P. R. R. Co., upon the question of the obligation of the company to pay the interest on the bonds issued by the United States in aid of the construction of its railroad. E. E. Hoar. no place, 1870. 4 pp., 10 x 7, b. p. no title-page.
- 464 —Superior Court of the City of New York; Charles Gould *vs.* the U. P. R. R. Co., James Fisk, Jr., and others: Statement of Plaintiff and decree of the Court. Note: Decree enjoins James Fisk, Jr., and certain others from voting at any election of directors of the U. P. R. R. no place, 1867. 13 pp., 11 x 7, pap. no title-page.
- 302 —Supreme Court of the United States, October Term, 1880; Thomas Wardell, Appellant, *vs.* the U. P. R. R. Co., *et al.*; appeal from the Circuit Court of the United States for the District of Nebraska: Opinion of the Court. S. G. Field. Note: Suit to recover damages from the company for its seizure of the property of the Wyoming Coal and Mining Co. no place, 1880. 5 pp., 13 x 8, b. p. no title-page.
- 422 —To the Union Trust Co. of New York, Trustee; collateral trust indenture, July 1st, 1879. no place, no date. 15 pp., 9 x 6, pap.
- 299 —U. S. Circuit Court, District of Connecticut, Sept., 1873; United States of America *vs.* the U. P. R. R. Co., and others; in equity: Argument of one of the defendants. R. G. Hazard. no place, 1873. 10 pp., 9 x 6, b. p. no title-page.
- 299 —United States Circuit Court, Southern District of New York; in equity: Answer of — to the bill of complaint of Lucy D. Fisk, as Executrix of James Fisk, Jr., Complainant, by order of Revivor, as amended. Hammond and Stickney. Note: Case relates to alleged frauds in administering the affairs of the U. P. R. R. Co. N. Y., 1874. 99 pp., 9 x 6, b. p.
- 299 —U. S. Circuit Court, Southern District of New York; in equity; Lucy D. Fisk, Executrix of James Fisk, Jr., deceased, against the U. P. R. R. Co., *et al.*: Bill of complaint as amended. J. M. Ball. Note: Case relates to alleged frauds in administering the affairs of the U. P. R. R. Co. N. Y., 1873. 85 pp., 9 x 6, b. p.

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- 800 —United States Court of Claims; U. P. R. Co. *vs.* the United States: Brief for Claimant. E. W. Stoughton. Note: Suit to recover from the United States money due the company for transportation of supplies and mails. no place, no date. 22 pp., 9 x 6, b. p. no title-page.
- 419 —*vs.* United States, being a suit to collect one-half of the transportation accounts of the United States with U. P. R. R.; Decision of U. S. Court of Claims; arguments before U. S. Supreme Court. Washington, D. C., Oct. 27th, 1875; decision of U. S. Supreme Court. Wash., 1875. 10 + 60 pp., 9 x 6, pap.
- 437 —Views of the Minority. U. S.-House Committee on Pacific Railroads. (54th Cong., 1st Sess. House rep. 1497, Pt. 2.) Wash., 1896. 30 pp., 9 x 6, pap. no title-page.
- 435 —Views of the Minority. U. S.-Senate Committee on Pacific Railroads. (54th Cong., 1st Sess. Senate rep. 778, Pt. 2.) Wash., 1896. 298 pp., 9 x 6, pap. no title-page.
- 417 **UNION PACIFIC RY.** Articles of union and consolidation of the Union Pacific R. R. Co., the Kansas Pacific Ry. Co., and Denver Pacific Ry. & Telegraph Co. into the U. P. Ry. Co., dated Jan. 24th, 1880; and the by-laws of the U. P. Ry. Co. Bost., 1884. 16 pp., 9 x 6, pap.
- 358 —In the Supreme Court of the United States; the Kansas Pacific Ry. Co., Plaintiff in error, against the State of Kansas, *ex rel.* W. A. Johnston, as Attorney-General, Defendant in error; F. L. Ames, *et al.*, calling themselves the Board of Directors of the U. P. Ry. Co., Plaintiffs in error, against the State of Kansas, *ex rel.* Attorney-General, Defendant in error: Oral argument in behalf of the Plaintiffs in error, other than the Govt. Directors, in support of the right to remove the causes into the Federal Court, Mar. 7th, 10th, 1884. J. F. Dillon. Note: Relates to the consolidation of the U. P. R. R. Co., the K. P. Ry. Co. and the Denver Pacific Ry. and Telegraph Co. no place, 1884. 77 pp., 9 x 6, pap.
- 423 —Plan and agreement for the reorganization of the U. P. Ry. Co. including its Kansas Pacific Lines, dated Oct. 15th, 1895. N. Y., 1895. 35 pp., 11 x 9, pap.
- UNITED STATES.** Argument before the Interstate Commerce Committee of the House of Representatives, in behalf of the Pittsburg, Fort Wayne & Chicago, and the Chicago, Milwaukee & St. Paul Railroads, in opposition to the proposed legislation on railroad rates Farnsworth. no place, no date. 16 pp., 9 x 6, b. p. no title-page. Ae-395, p. 43.
- Before the Interstate Commerce Commission: Arguments of Counsel at Washington, D. C., Dec. 15th and 16th, 1897. New York Produce Exchange *vs.* Baltimore & Ohio R. R. Co. and others, and Philadelphia Board of Trade and others. Note: Oral argument on inland freight differentials on eastbound grain, flour and provisions. 1898. (See Af-290.)
- 298 —Before the Senate Committee on Inter-state Commerce: Remarks on behalf of the Adams Express Co. on the proposed amendments to the Act to Regulate Commerce, Washington, Feb. 1st, 1888. C. A. Seward. N. Y., 1888. 47 pp., 9 x 6, b. p.
- Bill chartering a double-track freight-railway company from tide-water on the Atlantic to the Missouri River, and to limit the rates of freight thereon. Hurlbut. Note: Introduced in the House of Representatives Jan. 12th, 1874. no place, 1874. 28 pp., 10 x 7, b. p. Aj-52, p. 121.
- 487 —Car trusts in the United States: A brief statement of the law of contracts of conditional sale of rolling stock to railroads. Gherardi Davis and G. M. Browne, Jr. N. Y., 1884. 49 pp., 9 x 6, pap.
- 298 —Conference report on the disagreeing votes of the two Houses on the amendment of the House to the bill "to regulate commerce." U. S.-Congress. (49th Cong., 2d Sess. Senate misc. doc. No. 12.) no place, 1886. 10 pp., 9 x 6, b. p.
- Same. (49th Cong., 2d Sess. House misc. doc. No. 75.) no place, 1887. 13 pp., 9 x 6, b. p. no title-page. Ah-76, p. 383.
- 298 —In the matter of underbilling: Opinion and recommendations of the Commission. Interstate Commerce Commission. no place, no date. 28 pp., 9 x 6, b. p.
- 298 —Interstate Commerce Act of Feb. 4th, 1887, with a summary of its provisions. F. M. Leonard. Phil., 1887. 15 pp., 9 x 6, b. p.
- 298 —Interstate Commerce Act: Review of some of its possible applications to freight transportation, as they appeared prior to Apr. 5th, 1887. F. J. Firth. no place, no date. 38 pp., 9 x 6, b. p.
- 312 —Powers of consolidated railway companies; being an argument in the case of Frederick P. Dimpfel *versus* the Ohio and Mississippi Ry. Co., and others, in the United States Circuit Court for the Southern District of Illinois. C. W. Hassler. N. Y., 1879. 8 + 88 pp., 9 x 6, cl.
- Railroad laws of the United States H. M. Flint. 1868. (See Aj-6, p. 426.)
- Railway legislation. F. S. Bond. no place, no date. pp. 505-514, 9 x 6, b. p. no title page. Ah-76, p. 357.
- 298 —Review of the Interstate Commerce Bill as reported by the Conference Committee at Washington, Dec., 1886. G. R. Blanchard. Chic., 1886. 15 pp., tab., 9 x 6, b. p.

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- 301 —Rules of practice in cases and proceedings before the Commission, adopted May 25th, 1887. Interstate Commerce Commission. Wash., 1887. 10 pp., 9 x 6, b. p.
- Safety of life on railroads: Speech in the House of Representatives, Feb. 7th, 1873. Andrew King. Note: On "A bill to increase the safety of human life upon railroads." Wash., 1873. 13 pp., 6 tab., 9 x 6, b. p. Ah-77, p. 9.
- 331 **UTAH & NEVADA RY.** Articles of consolidation and agreement between the Oregon Short Line Ry. Co., the Utah & Northern Ry. Co., the Utah Central Ry. Co., the Salt Lake & Western Ry. Co., the U. & N. Ry. Co., the Ogden & Syracuse Ry. Co., the Idaho Central Ry. Co. and the Nevada Pacific Ry. Co. Bost., 1889. 24 pp., 9 x 6, pap.
- 331 **UTAH & NORTHERN RY.** Articles of consolidation and agreement between the Oregon Short Line Ry. Co., the U. & N. Ry. Co., the Utah Central Ry. Co., the Salt Lake & Western Ry. Co., the Utah & Nevada Ry. Co., the Ogden & Syracuse Ry. Co., the Idaho Central Ry. Co., and the Nevada Pacific Ry. Co. Bost., 1889. 24 pp., 9 x 6, pap.
- Grants, rights and privileges under national and territorial legislation; the articles of association, and mortgage executed by the company to secure its first mortgage bonds. Salt Lake City, 1878. 44 pp., 9 x 6, b. p. Aa-86, p. 451.
- 331 **UTAH CENTRAL RY.** Articles of consolidation and agreement between the Oregon Short Line Ry. Co., the Utah & Northern Ry. Co., the U. C. Ry. Co., the Salt Lake & Western Ry. Co., the Utah & Nevada Ry. Co., the Ogden & Syracuse Ry. Co., the Idaho Central Ry. Co., and the Nevada Pacific Ry. Co. Bost., 1889. 24 pp., 9 x 6, pap.
- VALLEY RY. OF OHIO.** Plan and agreement of reorganization, Oct. 9th, 1894. (See Ae-381.)
- 337 **VERMONT CENTRAL R. R.** Act to incorporate the V. C. R. R. Co., passed by the Legislature at their October Session, 1848. Vermont-General Assembly. Charlestown, 1845. 12 pp., 9 x 6, pap.
- WABASH, ST. LOUIS & PACIFIC RY.** Opinion: Circuit Court of the United States, Northern District of Illinois; Thomas B. Atkins and others vs. W., St. L. & P. Ry. Co. and others; Charles H. Beers vs. W., St. L. & P. Ry. Co. and others. W. Q. Gresham. N. Y., 1886. 21 pp., 9 x 6, b. p. Aa-87, p. 61.
- 305 —Reorganization plan and agreement, Nov. 21st, 1887. no place, 1887. 15 pp., 9 x 6, b. p.
- 390 —Second mortgage Bondholders' agreement. no place, 1886. 4 pp., 14 x 8, pap.
- 305 —Statement by the Bondholders' Committee, regarding the reorganization of the railroad. C. J. Lawrence, H. K. McHarg and T. B. Atkins. no place, 1887. 12 pp., 9 x 6, b. p.
- 392 **WASHINGTON & COLUMBIA RIVER RY.** Indenture between W. & C. R. Ry. Co. and Farmers' Loan & Trust Co.; income mortgage, dated Mar. 1st, 1886. Phil., 1886. 25 pp., 9 x 6, pap.
- 391 **WATERTOWN & MADISON R. R.** Mississippi extension of the W. & M. R. R.: Remarks in the Senate, Feb. 19th, 1857; bill to amend the charter of the W. & M. R. R.; adverse memorials of the Directors of Milwaukee & Mississippi R. R. Co. S. W. Barnes. Madison, 1857. 16 pp., 9 x 6, pap.
- 408 **WESTERN CENTRAL R. R.** Lease and contract of the Catawissa R. R. Co. to the W. C. R. R. Co. of Pennsylvania and the Atlantic & Great Western Ry. Co. of New York, Pennsylvania and Ohio, executed 1st Nov., 1865. Phil., 1865. 20 pp., 9 x 6, pap.
- 335 **WILMINGTON & SUSQUEHANNA R. R.** Laws incorporating the Philadelphia, Wilmington & Baltimore R. R. Co. of the State of Pennsylvania; the W. & S. R. R. Co. of the State of Delaware; the Delaware and Maryland R. R. Co. of the State of Maryland; the Baltimore & Port Deposit R. R. Co. of the State of Maryland; as enacted by the different Legislatures of those States; together with the articles of union, between the W. & S. and the Delaware & Maryland R. R. Companies. Phil., 1886. 69 pp., 9 x 6, pap.
- 461 **WISCONSIN.** Wisconsin railway legislation. D. A. Wells and others. Note: Relates to an appeal of the railroad companies to the United States Supreme Court against the assumption by the Legislature of the right to confiscate property without compensation. no place, 1874. 19 pp., 9 x 6, pap.
- 398 **WISCONSIN CENTRAL CO.** First mortgage bonds: Bondholders' agreement. no place, 1895. 12 pp., 9 x 6, pap.

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- 314 **ALABAMA GREAT SOUTHERN R. R.** Statement of accounts for the year ending June 30th, 1890, '96-1902. Cin., 1890-1902. 7 v., 9 x 6, pap.
- 313 **ALABAMA GREAT SOUTHERN RY.** Report of the Directors, and accounts for the year ending June 30th, 1878-1900. Lond., 1878-1900. 23 v., 9 x 6, pap.

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- ALBEMARLE & RALEIGH R. R. See Wilmington, Columbia & Augusta R. R.
- ALGOMA CENTRAL & HUDSON BAY RY. See Consolidated Lake Superior Co.
- 215 ALLEGHENY VALLEY R. R. Annual report of the President and Managers to the Stockholders; 23th, 29th-40th; 1878, '89-90. Pittsburg, 1879-91. 3 v., 9 x 6, pap.
- 215a ALLEGHENY VALLEY RY. Annual report; 1st-4th; 1892-95. Phil., 1898-95. 4 v., 9 x 6, pap.
- 478 ANN ARBOR R. R. Annual report; 1st-4th; for the year ending June 30th, 1898-1901. N. Y., 1898-1901. 4 v., il., maps, 9 x 6, pap.
- 208 ASHTABULA & NEW LISBON R. R. Annual report of the Directors and Chief Engineer; 1856. Cleveland, 1857. 1 v., 9 x 6, pap.
- 299 ATCHISON, TOPEKA & SANTA FE R. R. Report of Adlace F. Walker and John J. McCook, Receivers of the A., T. & S. F. R. R. Co., 1894-95; and Statement to the Directors of the A., T. & S. F. Ry. Co., by Adlace F. Walker, Chairman of the Board, dated July 1st, 1896. N. Y., 1896. 18 pp., 9 x 6, pap.
- 206 ATCHISON, TOPEKA & SANTA FE RY. Annual report; 5th-7th; for the fiscal year ending June 30th, 1900-02. N. Y., 1900-02. 3 v., 9 x 6, pap.
- 316 ATLANTA & CHARLOTTE AIR LINE RY. Report; 1879-80. N. Y., 1880-81. 2 v., 9 x 6, pap.
- 5 ATLANTA & LAGRANGE R. R. Report of the President and Superintendent to the Stockholders for the fiscal year ending June 30th, 1854. Atlanta, 1854. 1 v., tab., 9 x 6, b. p.
- 490 ATLANTA & WEST POINT R. R. Report of the President and Directors to the Stockholders for the fiscal year ended June 30th, 1901-02. no place, 1901-02. 2 v., tab., 9 x 6, pap.
- 488 ATLANTA, KNOXVILLE & NORTHERN RY. Annual report; 5th-6th; for the year ending June 30th, 1901-02. Knoxville, 1901-02. 2 v., 9 x 6, pap.
- 317 ATLANTIC & DANVILLE RY. Annual report of the Directors to the Stockholders; 2d; for the year ending June 30th, 1896. Norfolk, Va., 1896. 1 v., 10 x 7, pap.
- 468 ATLANTIC & LAKE ERIE RY. Report presented to the Stockholders at their annual meeting, Feb., 1874. Cin., 1874. 28 pp., map, tab., 9 x 6, pap.
- 320 ATLANTIC & PACIFIC R. R. Annual report; 1882. Bost., 1883. 1 v., 9 x 6, pap.
- 492 ATLANTIC COAST LINE R. R. Annual report of the Officers to the Stockholders; 66th-67th; for the year ending June 30th, 1900-01. no place, 1900-01. 2 v., 9 x 6, pap.
- 429 ATLANTIC COAST LINE R. R. OF VIRGINIA. Annual report; 1899. Richmond, 1899. 1 v., 9 x 6, pap.
- 341 BALTIMORE & OHIO R. R. Annual report of the B. & O. Employés Relief Association; 6th-7th; 1886-87. Note: Continued as Relief Department of the B. & O. R. R. Co. Balt., 1887-88. 2 v., 9 x 6, pap.
- 275 —Annual report of the President and Directors to the Stockholders; 70th-76th; for the year ended June 30th, 1896-1902. Balt., 1896-1902. 7 v., 12 x 9, pap.
- 342 —Relief Department: Annual report; 1st; covering the fiscal year ending Sept. 30th, 1889. Note: Continuation of the B. & O. Employés Relief Association. no place, 1889. 1 v., 9 x 6, pap.
- 340 —Report of the Directors to the Legislature of Maryland. Note: Special report made in compliance with an order of the House of Delegates showing progress made on the railroad, and giving an account of the controversy with the Chesapeake & Ohio Canal Co. no place, 1881. 77 pp., 9 x 6, pap.
- 318 BALTIMORE & OHIO SOUTHWESTERN R. R. Annual report of the President and Directors to the Stockholders; 1st; for the year ending June 30th, 1891. Cin., 1891. 1 v., 11 x 9, pap.
- 319 BALTIMORE & OHIO SOUTHWESTERN RY. Annual report of the President and Directors to the Stockholders; 2d; for the year ending June 30th, 1895. Cin., 1895. 1 v., 11 x 9, pap.
- 315 BALTIMORE & SUSQUEHANNA R. R. Annual report of the President and Directors; 1st, 8th; 1828, '35. Balt., 1828-36. 2 v., 9 x 6, pap.
- 801 —Report of a general meeting of Stockholders, Oct. 16th, 1854. Balt., 1854. 10 pp., 9 x 6, pap.
- 547 BALTIMORE, CHESAPEAKE & ATLANTIC RY. Annual report; 6th-8th; 1900-02. no place, 1900-02. 3 v., maps, 9 x 6, pap.
- 487 BANGOR & ARROSTOOK R. R. Annual report; 7th; for the year ending June 30th, 1901. Bangor, 1901. 1 v., 9 x 6, pap.
- 821 BEECH CREEK R. R. Report for the year ended June 30th, 1892. N. Y., 1892. 1 v., 9 x 6, pap.
- 235 BOSTON & ALBANY R. R. Annual report of the Directors to the Stockholders; 25th-33d; 1892-1900. Bost., 1892-1900. 9 v., 9 x 6, pap.

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- 211 **BOSTON & MAINE R. R.** Annual report of the Directors to the Stockholders; 43d, 45th-52d, 55th-59th, 61st-63d, 65th, 67th-69th; for the year ending June 30th, 1876, '78-85, '88-92, '94-96, '98, 1900-02. Bost., 1876-1902. 21 v., 9 x 6, pap.
- BOSTON & NEW YORK AIR LINE R. R.** Annual report of the Board of Directors to the Stockholders for the year ending Apr. 30th, 1882. N. Y., 1882. 1 v., 9 x 6, b. p. Ab-455, p. 29.
- Report of the General Manager to the Board of Directors. no place, no date. 3 pp., 9 x 6, b. p. no title-page. Aa-82, p. 241.
- 34 **BOSTON & WORCESTER R. R.** Annual report of the Directors; 1st, 9th, 20th-21st, 23d, 25th-27th, 31st, 33d, 36th-37th; 1882, '40, '49-50, '52, '54-56, '60, '62, '65-66. Bost., 1892-67. 12 v., 9 x 6, pap.
- 185 —Communication by the Directors to the Stockholders in relation to the late award of Commissioners and the strictures of the President of the Western R. R. Corporation thereon. Note: Relates to the transportation contract made by the two companies. Bost., 1860. 72 pp., 9 x 6, pap.
- 47 **BOSTON, CONCORD & MONTREAL R. R.** Annual report of the Directors; 26th-31st, 34th-39th; for the year ending Mar. 31st, 1872-77, '80-85. Bost., 1872-85. 12 v., 9 x 6, pap.
- 227 **BUFFALO & NEW YORK CITY R. R.** Report of the Committee appointed to investigate the affairs of the company. N. Y., 1854. 30 pp., 9 x 6, pap.
- 491 **BUFFALO & SUSQUEHANNA R. R.** Annual report; 7th; for the year ended June 30th, 1901. no place, 1901. 1 v., map, 9 x 6, pap.
- 322 **BUFFALO, NEW YORK & PHILADELPHIA R. R.** Annual report; 1st-3d, 5th; 1883-85, '87. Phil., 1884-88. 4 v., pl., 9 x 6, pap.
- 302 **BUFFALO, PITTSBURGH & WESTERN R. R.** Annual report; 1882. Phil., 1889. 1 v., 9 x 6, pap.
- 323 **BUFFALO, ROCHESTER & PITTSBURGH RY.** Annual report for the year ending June 30th, 1892-1902. Rochester, 1892-1902. 11 v., 9 x 6, pap.
- 308 **BURLINGTON & MISSOURI RIVER R. R. IN NEBRASKA.** Report of the Directors to the Stockholders; 1873. Bost., 1874. 1 v., map, 9 x 6, pap.
- 46 **BURLINGTON, CEDAR RAPIDS & NORTHERN RY. OF IOWA.** Annual report; 5th, 7th-9th, 11th, 14th-15th, 20th, 24th-25th; 1881, '88-85, '87, '90-91, '96, 1900-01. Cedar Rapids, 1882-1901. 10 v., 9 x 6, pap.
- 270 **CALEDONIAN RY.** Report by the Directors to the half-yearly general meeting of the company; 81st-82d, 84th-113th; July, 1885-Jan., '86; Jan., '87-July, 1901. Glasgow, 1885-1901. 32 v., 15 x 10, pap.
- 324 **CAMDEN & ATLANTIC R. R.** Annual report of the Board of Directors to the Stockholders; 1873-81, '83-95. Phil., 1873-95. 23 v., 9 x 6, pap.
- 500 **CANADA ATLANTIC RY.** Report for the fiscal year ending June 30th, 1901. no place, 1901. 1 v., map, 9 x 6, pap.
- 239 **CANADA SOUTHERN RY.** Annual report of the President and Directors to the Shareholders; 1873, '77, '80-91, '94, '96, 1901. N. Y., 1873-1901. 16 v., 9 x 6, pap.
- 271 **CANADIAN PACIFIC RY.** Annual report; 8th-12th, 14th-20th; for the fiscal year ending June 30th, 1898-92, '94-1901. Montreal, 1899-1901. 12 v., 9 x 6, maps, tab., pap.
- 160 —Report of proceedings at a general meeting of the Shareholders held at Montreal on the 3d and 6th days of Mar., 1884. Montreal, 1884. 40 pp., 9 x 6, pap.
- 229 **CAPE FEAR & YADKIN VALLEY RY.** Proceedings of the annual meeting of the Stockholders; 1892. Fayetteville, N. C., 1892. 1 v., 9 x 6, pap.
- 520 **CENTRAL OF GEORGIA RY.** Annual report; 2d-3d, 5th-7th; for the year ended June 30th, 1897-98, 1900-02. Savannah, 1897-1902. 5 v., maps, 11 x 9, pap.
- 44 **CENTRAL PACIFIC R. R.** Annual report of the Board of Directors to the Stockholders; 1876, '87. San Fran., 1877-87. 2 v., 9 x 6, 12 x 9, pap.
- 206 **CENTRAL R. R. & BANKING CO. OF GEORGIA.** Report of the President and Directors to the Stockholders; 1st-32d, 35th-60th; 1838-67, '70-95. Savannah, 1854-95. 58 v. in 13, 9 x 6, pap., cl.
- 213 **CENTRAL R. R. OF NEW JERSEY.** Annual report of the Board of Directors to the Stockholders; 43d, 54th; 1890, 1901. Note: Report for 1901 contains annual report of the Lehigh & Wilkes-Barre Coal Co. N. Y., 1891-1901. 2 v., 11 x 9, pap.
- CENTRAL R. R. OF SOUTH CAROLINA.** See Wilmington, Columbia & Augusta R. R.
- 325 **CENTRAL VERMONT R. R.** Report of the Directors to the Stockholders for the year ending June 30th, 1886-87, '90, '92, '95. St. Albans, 1886-95. 5 v., maps, 11 x 8, 9 x 6, pap.
- 325a **CENTRAL VERMONT RY.** Annual report of the Directors; 1st-3d; for the fiscal year ending June 30th, 1900-02. no place, 1900-02. 3 v., maps, 9 x 6, pap.
- 326 **CHARLOTTE, COLUMBIA & AUGUSTA R. R.** Proceedings of the Stockholders at their annual meeting; 1870-86. Columbia, 1870-86. 17 v., 9 x 6, pap.

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- 147 **CHEMIN DE FER DE PARIS A ORLEANS.** Rapports du conseil d'administration et de la commission de vérification des comptes; 58th-59th; 1889-90. Paris, 1889-90. 2 v., maps, tab., 10 x 9, pap.
- CHERAW & DARLINGTON R. R.** See Wilmington, Columbia & Augusta R. R.
- 39 **CHESAPEAKE & OHIO R. R.** Annual report of the President and Directors to the Stockholders; 7th; 1874. N. Y., 1874. 1 v., 9 x 6, pap.
- Statement of its present condition as presented to the Receiver by its officers; also of the character and condition of the suits now pending for the foreclosure of mortgages. no place. 1875. 62 pp., 9 x 6, b. p. Aa-36, p. 625.
- 304 **CHESAPEAKE & OHIO RY.** Annual report of the Board of Directors to the Stockholders for the fiscal year ending June 30th, 1879, '82-83, '89-1901. Richmond, 1880-1901. 16 v., maps, 9 x 6, pap.
- 327 **CHESAPEAKE, OHIO & SOUTHWESTERN R. R.** Annual report; 4th; 1886. N. Y., 1886. 1 v., 14 x 8, pap.
- 21 **CHICAGO & ALTON R. R.** Annual report of the President and Directors; 6th, 19th-37th; 1868, '81-99. Note: For Report, Jan.-June, 1900, See Ag-517, Annual report, 1901. Chic., 1868-1900. 20 v., 9 x 6, pap.
- 517 **CHICAGO & ALTON RY.** Annual report; 1st-3d; for the year ending June 30th, 1901-02. Note: Report for 1901 includes statistical statement of operations of the Chicago & Alton R. R. for period from Jan. to June, 1900. Chic., 1901-02. 2 v., map, 12 x 9, pap.
- 323 **CHICAGO & EASTERN ILLINOIS R. R.** Annual report for the year ending June 30th, 1890-1902. Chic., 1890-1902. 13 v., maps, 10 x 6, pap.
- 308 —Same; 1878-79. Chic., 1878-79. 2 v., 9 x 6, b. p.
- 306 —Same; 1879-81. Chic., 1879-81. 3 v., 9 x 6, b. p.
- Same; 1882. Chic., 1882. 1 v., 9 x 6, b. p. Ab-455, p. 39.
- CHICAGO & GRAND TRUNK JUNCTION RY.** See Detroit, Grand Haven & Milwaukee Ry.
- 35 **CHICAGO & NORTHWESTERN RY.** Annual report; 1st-2d, 4th, 22d, 24th-26th, 28th-30th, 35th, 37th-43d; for the fiscal year ending May 31st, 1860-61, '68, '81, '83-85, '87-89, '94, '96-1902. N. Y., 1860-1902. 18 v., 9 x 6, pap.
- 329 —Circular to Bond and Stockholders, Jan. 21st, 1861. N. Y., 1861. 26 pp., 9 x 6, pap.
- 380 —Circular to the Stockholders, June 20th, 1864. Note: Relates to the consolidation of the Galena & Chicago Union R. R. Co. with the C. & N. W. Ry. Co. Chic., 1864. 11 pp., 9 x 6, pap.
- 381 **CHICAGO & WEST MICHIGAN R. R.** Annual report; 2d; 1880. Bost., 1881. 1 v., 9 x 6, pap.
- 333 **CHICAGO & WEST MICHIGAN RY.** Annual report; 1st, 3d-18th; 1881, '83-98. Bost., 1882-99. 17 v., maps, 9 x 6, pap.
- 27 **CHICAGO, BURLINGTON & QUINCY R. R.** Annual report of the Directors; 4th-5th, 38th-48th; for the year ending June 30th, 1868-69, '91-1902. Chic., 1868-1902. 13 v., 9 x 6, pap.
- CHICAGO, DANVILLE & VINCENNES R. R.** Report of the Committee of Investigation, Apr. 14th, 1875. N. Y., 1875. 37 pp., 9 x 6, b. p. Af-297, p. 319.
- United States of America, Northern District of Illinois; in the Circuit Court thereof; William R. Fosdick and James D. Fish vs. the C., D. & V. R. R. Co.; in Chancery; Report of Receiver. A. Anderson. Chic., 1875. 35 pp., tab., 9 x 6, b. p. Af-297, p. 363.
- Will Circuit Court, to Jan. Term, 1875; Stephen Osgood, vs. the C., D. & V. R. R. Co. and others; Report of Receivers to the Court with additional documents. H. B. Hammond and J. B. Brown. Chic., 1875. 96 pp., 9 x 6, b. p. Af-297, p. 221.
- 181 **CHICAGO GREAT WESTERN RY.** Annual report; 1st-10th; for the fiscal year ending June 30th, 1893-1902. Chic., 1893-1902. 10 v., 9 x 6, pap.
- 335 **CHICAGO, INDIANAPOLIS & LOUISVILLE RY.** Annual report; 1st-5th; for the fiscal year ending June 30th, 1893-1902. N. Y., 1893-1902. 5 v., 9 x 6, pap.
- 284 **CHICAGO, MILWAUKEE & ST. PAUL RY.** Annual report; 12th, 16th, 28th, 32d-37th; for the fiscal year ending June 30th, 1875, '79, '92, '96-1901. Chic., 1876-1901. 9 v., maps, 9 x 6, pap.
- 378 **CHICAGO, PEKIN & SOUTHWESTERN R. R.** Annual report; 1st; 1870. Pekin, Ill., 1870. 1 v., map, 8 x 5, pap.
- 498 **CHICAGO, PEORIA & ST. LOUIS RY. OF ILLINOIS.** Report for the fiscal year ending June 30th, 1901. no place, 1901. 1 v., tab., 9 x 6, pap.
- 16 **CHICAGO, ROCK ISLAND & PACIFIC RY.** Annual report of the Directors to the Stockholders; 8th-10th, 15th-21st; for the fiscal year ending Mar. 31st, 1888-90, '95-1901. Chic., 1888-1901. 10 v., maps, 9 x 6, pap.
- 238 **CHICAGO, ST. PAUL & KANSAS CITY RY.** Annual report; 1st-3rd, 6th; for the year ending June 30th, 1887-89, '92. no place, no date. 4 v., 9 x 6, pap.

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- 209 **CHICAGO, ST. PAUL, MINNEAPOLIS & OMAHA RY.** Annual report; 1st-3d, 6th-9th, 13th-14th, 16th-21st; 1831-33, '86-89, '93-94, '96-1901. St. Paul, 1882-1902. 15 v., maps, 9 x 6, pap.
- 498 **CHICAGO TERMINAL TRANSFER R. R.** Annual report; 4th; for the fiscal year ending June 30th, 1901. no place, 1901. 1 v., 11 x 9, pap.
- 499 **CHOCTAW, OKLAHOMA & GULF R. R.** Report of the operations; 1901. no place, 1901. 1 v., map, 9 x 6, pap.
- 512 **CINCINNATI & MUSKINGUM VALLEY R. R.** Annual report of the Board of Directors; 4th; 1901. Pittsburg, 1902. 1 v., 9 x 6, pap.
- 180 **CINCINNATI, HAMILTON & DAYTON R. R.** Annual report of the Directors to the Stockholders; 35th, 42d; 1882, '89. Cin., 1882-89. 2 v., 9 x 6, pap.
- 495 **CINCINNATI, HAMILTON & DAYTON RY.** Annual report of the Board of Directors to the Stockholders for the year ending June 30th, 1901. no place, 1901. 1 v., 9 x 6, pap.
- 379 **CINCINNATI, INDIANAPOLIS, ST. LOUIS & CHICAGO RY.** Annual report to the Stockholders; 1st-9th; for the year ending June 30th, 1880-88. Cin., 1880-88. 9 v., map, tab., 9 x 6, pap.
- 333 **CINCINNATI, NEW ORLEANS & TEXAS PACIFIC RY.** Annual report and statement of accounts; 1st-11th, 13th-20th; for the year ending June 30th, 1882-93, '95-1902. Cin., 1882-1902. 20 v., 9 x 6, pap.
- 467 —Report of the Committee of Stockholders, Jan., 1885. Cin., 1885. 162 pp., 9 x 6, pap.
- 475 **CINCINNATI R. R.** Annual report of the C. R. R. Co. as licensees of the Cincinnati Southern Ry.; 1st-2d; 1879-80. Cin., 1880-81. 2 v., tab., 9 x 6, pap.
- CINCINNATI, SAGINAW & MACKINAW R. R.** See Detroit, Grand Haven & Milwaukee Ry.
- 473 **CINCINNATI SOUTHERN RY.** Annual report of the Directors to the Stockholders; 1st; for the year ending June 30th, 1878. Cin., 1878. 1 v., tab., 9 x 6, pap.
- 466 —Computation of proposals for lease of the C. S. Ry. Cin., 1881. 3 pp., pl., 9 x 6, pap.
- 474 —Secretary and Auditor's report to the Board of Trustees; 1880. Cin., 1881. 1 v., tab., 9 x 6, pap.
- 471 —Statement of receipts and disbursements, from July, 1869, to Jan., 1876. Cin., 1878. 19 pp., tab., 9 x 6, pap.
- 472 —Superintendent's annual report on the cost of maintaining the C. S. Ry; 1877-78, '80. Cin., 1877-80. 3 v., tab., 9 x 6, pap.
- 380 **CINCINNATI, WASHINGTON & BALTIMORE R. R.** Annual report; 5th; 1887. Cin., 1888. 1 v., 9 x 6, pap.
- 513 **CLEVELAND, AKRON & COLUMBUS RY.** Annual report; 15th; 1901. Pittsburg, 1902. 1 v., 9 x 6, pap.
- 50 **CLEVELAND & PITTSBURGH R. R.** Annual report of the President and Directors to the Stockholders; 7th, 25th-28th, 42d, 45th; 1854, '72-75, '89, '92. Cleveland, 1855-93. 7 v., 9 x 6, pap.
- 381 **CLEVELAND & TOLEDO R. R.** Report of the Directors to the Stockholders; 1st, 4th; 1854, '57. N. Y., 1854-57. 2 v., 9 x 6, pap.
- 297 **CLEVELAND, CINCINNATI, CHICAGO & ST. LOUIS RY.** Annual report of the Directors to the Stockholders; 1st-12th; for the fiscal year ending June 30th, 1890-1901. Cin., 1890-1901. 12 v., maps, 9 x 6, pap.
- 296 —Statement of the Directors to the Stockholders, July 1st, 1889. Cin., 1889. 19 pp., map, 9 x 6, pap.
- 22 **CLEVELAND, COLUMBUS, CINCINNATI & INDIANAPOLIS RY.** Annual report of the Board of Directors to the Stockholders; 15th-16th, 19th-21st; 1882-88, '86-88. Cleveland, 1888-89. 5 v., 9 x 6, pap.
- 514 **CLEVELAND, LORAIN & WHEELING RY.** Annual report of the Board of Directors for the year ending June 30th, 1901. Cleveland, 1901. 1 v., map, 9 x 6, pap.
- 496 **CLEVELAND TERMINAL & VALLEY R. R.** Report of the President and Directors to the Stockholders; 6th; for the fiscal year ended June 30th, 1901. no place, 1901. 1 v., 9 x 6, pap.
- 497 **COLORADO & SOUTHERN RY.** Annual report to the Stockholders; 1st-3rd; for the fiscal year ended June 30th, 1900-02. Note: Report for 1900 contains a report for the period Jan. to June, 1899. Denver, 1900-02. 3 v., maps, 9 x 6, pap.
- 546 **COLORADO MIDLAND RY.** Financial statement for the fiscal year ended June 30th, 1902. no place, 1902. 1 v., 11 x 8, pap.
- 15 **COLUMBUS, HOCKING VALLEY & TOLEDO RY.** Annual report; 3d, 10th-15th; 1883, '90-95. Columbus, 1884-96. 7 v., 9 x 6, pap.
- 532 **COLUMBUS, SANDUSKY & HOCKING R. R.** Memorandum report from Nov. 15th, 1895, to June 30th, 1896, and of the Receiver of the railway, from July 1st, 1895, to Nov. 14th, 1895. Columbus, 1896. 12 pp., 9 x 6, pap.

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- 332 **CONCORD & MONTREAL R. R.** Annual report of the Directors; 1st-11th; for the year ending June 30th, 1890-1900. Concord, 1890-1900. 11 v. in 10, 9 x 6, pap.
- 48 **CONCORD R. R.** Annual report of the Directors; 1st-5th, 15th, 17th, 19th, 22d-23d, 28th-36th, 39th-44th, 46th, 48th; for the year ending Mar. 31st, 1841-46, '58, '58, '60, '68-64, '69-77, '80-85, '87-89. Concord, N. H., 1856-89. 27 v. in 23, 9 x 6, pap.
- 388 **CONNECTICUT & PASSUMPSIC RIVERS R. R.** Annual report of the Directors; 37th, 40th; for the year ending June 30th, 1882, '85. Bost., 1882-85. 2 v., 9 x 6, pap.
- 394 **CONNECTICUT RIVER R. R.** Annual report of the Directors to the Stockholders; 1st-48th; for the year ending June 30th, 1845-92. Springfield, Mass., 1845-92. 48 v., 9 x 6, ½ mor., pap.
- 545 **CONSOLIDATED LAKE SUPERIOR CO.** Annual report; 4th; for the year ending June 30th, 1902. no place, 1902. 1 v., 9 x 6, pap.
- 385 **CONSOLIDATED R. R. OF VERMONT.** Annual report for the year ending June 30th, 1887, '89. no place, 1887-89. 2 v., 8 x 5, pap.
- 182 **CUMBERLAND VALLEY R. R.** Annual report to the Stockholders; 5th, 8th, 15th-16th, 18th-32d, 36th, 38th-40th, 42d-67th; 1839, '42, '49-50, '52-66, '70, '72-74, '76-1901. Note: Contains annual reports of the Southern Penna. Ry. & Mining Co. Chambersburg, Pa., 1840-1901. 49 v., 9 x 6, pap.
- 386 **DANBURY & NORWALK R. R.** Annual report of the Board of Directors to the Stockholders; 29th; 1881. Norwalk, 1881. 1 v., 9 x 6, pap.
- 518 **DELAWARE & HUDSON CO.** Annual report; 1825, '27, '31-32, '34-1900. Note: Canal sold June, 1899; prior to that date, name of company was Delaware & Hudson Canal Co. no place, 1826-1901. 72 v. in 8, maps, 12 x 9, pap., ¼ ro.
- 519 **DELAWARE, LACKAWANNA & WESTERN R. R.** Annual report; 1861, 1901. N. Y., 1862-1901. 2 v., 12 x 9, pap.
- Same; 1853-60. N. Y., 1854-61. 8 v., 8 x 5, b. p. Af-13, p. 135.
- 55 **DENVER & RIO GRANDE R. R.** Annual report to the Stockholders; 1st-4th, 10th-15th; for the fiscal year ending June 30th, 1886-89, '96-1901. Denver, 1887-1901. 10 v., maps, 9 x 6, pap.
- 54 **DENVER & RIO GRANDE RY.** Annual report of the Board of Directors to the Stockholders; 8th; 1880. Colorado Springs, 1881. 1 v., 9 x 6, pap.
- 506 **DENVER & SOUTHWESTERN RY.** Annual report; 2d; 1901. no place, 1901. 1 v., 9 x 6, pap.
- 19 **DETROIT, GRAND HAVEN & MILWAUKEE RY.** Report of the Directors; 4th-21st; 1882-99. Note: Reports, 1896-99, contain Reports of the Directors of the Cincinnati, Saginaw & Mackinaw R. R. Co., Toledo, Saginaw & Muskegon Ry. Co., Chicago & Grand Trunk Ry. Co., and Grand Trunk Junction Ry. Co. Detroit, 1889-1900. 18 v., 9 x 6, pap.
- 387 **DETROIT, GRAND RAPIDS & WESTERN R. R.** Annual report; 1st-2d; 1897-98. Bost., 1898-99. 2 v., maps, 10 x 7, pap.
- 394 **DETROIT, LANSING & NORTHERN R. R.** Annual report to the Stockholders; 2d-18th; 1878-94. Bost., 1879-95. 17 v., maps, 9 x 6, 10 x 7, pap.
- 442 **EAST TENNESSEE & GEORGIA R. R.** Proceedings of the annual convention of Stockholders; 1865-67, '69. Knoxville, 1865-69. 4 v., 9 x 6, pap.
- 388 **EAST TENNESSEE & VIRGINIA R. R.** Annual report of the President and other officers to the Stockholders; 18th; for the fiscal year ending June 30th, 1869. Knoxville; 1870. 1 v., 9 x 6, pap.
- 336 **EAST TENNESSEE, VIRGINIA & GEORGIA R. R.** Annual report; 1st, 3d-4th, 14th; for the year ending June 30th, 1870, '72-73, '83. Knoxville, 1870-83. 4 v., 9 x 6, pap.
- 337 **EAST TENNESSEE, VIRGINIA & GEORGIA RY.** Annual report; 1st, 3d, 5th-6th; for the fiscal year ending June 30th, 1887, '89, '91-92. Note: For 4th Annual report (1890), see Ag-464. Knoxville, 1887-92. 4 v., 9 x 6, pap.
- 389 **ELGIN, JOLIET & EASTERN RY.** Annual report of the Directors to the Stockholders; 1st-6th, 8th; for the fiscal year ended June 30th, 1891-98, '98. Note: Report for 1891 contains also report of the operations of the road for 1889 and 1890. N. Y., 1891-98. 7 v., 9 x 6, pap.
- 390 **ERIE R. R.** Annual report of the Board of Directors to the Bond and Shareholders; 1st-7th; for the fiscal year ending June 30th, 1896-1902. N. Y., 1896-1902. 7 v., map, tab., 12 x 9, pap.
- 391 **EVANSVILLE & CRAWFORDSVILLE R. R.** Annual report to the Stockholders; 17th; 1871. Evansville, 1871. 1 v., 9 x 6, pap.
- 388 **EVANSVILLE & TERRE HAUTE R. R.** Annual report; 27th, 32d-33d, 35th-37th, 39th-42d, 44th, 47th; for the year ending June 30th, 1881, '86-87, '89-91, '93-96, '98, 1901. Evansville, 1881-1901. 12 v., 9 x 6, pap.
- 306 **EVANSVILLE, TERRE HAUTE & CHICAGO RY.** Annual report of the President and Directors to the Stockholders; 5th; for the year ending May 31st, 1875. Terre Haute, 1875. 1 v., 9 x 6, b. p.

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- 339 **FITCHBURG R. R.** Annual report of the Directors; 8th, 10th-13th, 15th-17th, 21st-22d, 24th-30th, for the year ending June 30th, 1849, '51-54, '56-58, '62-63, '65-1901. Bost., 1850-1901. 47 v., maps, 9 x 6, pap.
- 345 — Report of Committee of Investigation, appointed at annual meeting, Jan. 29th, 1856 Bost., 1857. 43 pp., tab., 9 x 6, pap.
- 12 **FLINT & PERE MARQUETTE R. R.** Annual report made to the Stockholders; 1882-98. Saginaw, 1882-98. 17 v., il., maps, 9 x 8, pap.
- FLORENCE R. R.** See Wilmington, Columbia & Augusta R. R.
- 470 **FORT WAYNE, LACON & PLATTE VALLEY AIR LINE R. R.** Report of the President and Directors to the Stockholders; 1st; 1863. Cin., 1864. 1 v., map, 9 x 6, pap.
- 392 **FORT WORTH & DENVER CITY RY.** Annual report of the Board of Directors to the Stockholders; 2d, 6th, 19th-20th; 1888, '87, 1900-01. N. Y., 1888-1901. 4 v., maps, tab., 9 x 6, pap.
- 393 **GEORGIA PACIFIC RY.** Annual report; 3d-4th, 6th-7th; 1834-85, '87-88. Note: 3d annual report (1884) contains also reports of officers for 1883 with statement of expenses and earnings for 1882. Atlanta, 1884-88. 4 v., 9 x 6, pap.
- 444 **GEORGIA R. R.** Report of the General Manager to the Lessees, for the year ending Mar. 31st, 1888. Augusta, 1888. 1 v., tab., 9 x 6, pap.
- 355 **GEORGIA R. R. & BANKING CO.** Annual report of the President and Directors to the Stockholders in convention, May, 1889-40, '42, '45, '48-56, '58-64, '66-75, '77-85, '87-1901. Note: Title of early reports reads Report of the Engineer in Chief. Supplemental report issued in 1881. Augusta, 1889-1901. 55 v., tab., 9 x 6, pap.
- 509 **GEORGIA SOUTHERN & FLORIDA RY.** Annual report; 7th; for the year ended June 30th, 1901. no place, 1901. 1 v., 10 x 7, pap.
- 544 **GILA VALLEY, GLOBE & NORTHERN RY.** General balance sheet and statement of earnings and operating expenses for the year ending June 30th, 1902. no place, 1902. 1 v., 18 x 8, pap.
- 262 **GLASGOW & SOUTHWESTERN RY.** Report by the Directors to the Shareholders at their ordinary half-yearly meeting; July, 1868-Jan., '68; July, '68-July, 1902. Glasgow, 1868-1902. 65 v., 15 x 10, pap.
- 223 **GRAND RAPIDS & INDIANA R. R.** Annual report of the Board of Directors to the Stockholders; 1859-63, '74, '80, '82-83, '88, '95-96. Grand Rapids, 1860-87. 12 v. in 10, 9 x 6, pap.
- 223a **GRAND RAPIDS & INDIANA RY.** Annual report of the Board of Directors; 1st-6th; 1896-1901. Grand Rapids, 1897-1901. 6 v., 9 x 6, pap.
- GRAND TRUNK JUNCTION RY.** See Detroit, Grand Haven & Milwaukee Ry.
- 193 **GRAND TRUNK RY. OF CANADA.** Report of the Directors and statements of accounts, for the half-year ended Dec., 1867; Dec., '69; Dec., '73; Dec., '74; June, '75; June, '76-June, '78; June, '79-June, 1900; June-Dec., 1901. Lond., 1868-1902. 55 v., 9 x 5, pap.
- GREAT NORTHERN RY. (ENGLAND).** Superannuation fund: Report of the Managing Committee, to accompany the eighth yearly account of the fund, and balance sheet to 31st Dec., 1882. no place, 1882. 3 pp., 10 x 8, b. p. no title-page. Ae-307, p. 213.
- 352 **GREAT NORTHERN RY. (U. S.)** Annual report; 1st-12th; for the fiscal year ending June 30th, 1890-1901. St. Paul, 1890-1901. 12 v., maps, 9 x 6, pap.
- 549 **GREAT NORTHERN RY. OF CANADA.** Annual report for the year ended June 30th, 1901. Quebec, 1902. 1 v., pl., maps, 9 x 6, pap.
- 494 **GREEN BAY & WESTERN R. R.** Statement for the year ending Dec. 31st, 1901. no place, 1901. 1 v., 8 x 5, pap.
- 459 **GREENSVILLE & ROANOKE R. R.** Report of the Petersburg and G. & R. R. R. Companies; 1865. Raleigh, 1865. 1 v., tab., 9 x 6, pap.
- 394 **GULF, COLORADO & SANTA FE RY.** Annual report; 2d, 4th; for the fiscal year ending July 31st, 1882, '84. Galveston, 1882-85. 2 v., 9 x 6, pap.
- 198 **HANNIBAL & ST. JOSEPH R. R.** Report to the Stockholders; 1880. N. Y., 1881. 1 v., 9 x 6, pap.
- HARTSVILLE R. R.** See Wilmington, Columbia & Augusta R. R.
- 501 **HOCKING VALLEY RY.** Annual report; 1st-3rd; for the year ending June 30th, 1900-02. Columbus, 1900-02. 3 v., maps, 10 x 7, pap.
- 62 **HOUSTONIC R. R.** Annual report of the Board of Directors to the Stockholders; 1850, '62, '87, '91-92. no place, 1851-93. 5 v., 9 x 6, pap.
- 445 **HUNTINGDON & BROAD TOP MOUNTAIN R. R. & COAL CO.** Annual report of the President and Directors to the Stockholders; 38th, 49th; 1890, 1901. Phil., 1891-1901. 2 v., tab., 9 x 6, pap.
- 26 **ILLINOIS CENTRAL R. R.** Report and accounts for the year ending June 30th, 1864, '67, '81-82, '84-99, 1901-02. N. Y., 1865-1902. 22 v., maps, 17 x 11, 18 x 9, pap no title-page.

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- 477 —Report of annual inspection of track, showing comparative standing of each section; 1892-1900. I. C. R. R. Co. and Yazoo & Mississippi Valley R. R. Co. Chic., 1892-1900. 9 v., 14 x 10, pap.
- 309 **INDIANA MIDLAND RY.** Report; 14th, 16th, 32d-34th; for the half-year ended June 30th, 1892; June 30th, '98; June 30th, 1901-June, '02. Lond., 1892-1902. 5 v., 13 x 8, 8 x 6, pap.
- INDIANA & ILLINOIS CENTRAL RY.** Annual report to the Stockholders for the year ending May 1st, 1857. Indianapolis, 1857. 1 v., 9 x 4, b. p. Af-807, p. 53.
- Report of a Committee appointed to examine the condition of the I. & I. C. Ry Co. N. Y., no date. 11 pp., 9 x 6, b. p. no title-page. Af-297, p. 1.
- 508 **INDIANA, ILLINOIS & IOWA R. R.** Annual report of the Board of Directors to the Stockholders; 30th; for the year ending June 30th, 1901. Chic., 1901. 1 v., map, 10 x 7, pap.
- 353 **IOWA CENTRAL RY.** Annual report; 1st-7th, 9th-12th: for the year ending June 30th, 1890-96, '98-1901. N. Y., 1890-1901. 11 v., maps, 9 x 6, pap.
- 446 **IOWA FALLS & SIOUX CITY R. R.** Annual report of the transactions and present condition of the affairs of the Land Department for the fiscal year ending Mar. 31st, 1883. Note: For report, 1879, see Ag-447. Cedar Rapids, Iowa, 1883. 1 v., tab., 9 x 6, pap.
- 447 **IOWA R. R. LAND CO.** Annual report of the transactions and present condition of the affairs of the I. R. R. Land Co., Land Department of the Iowa Falls & Sioux City R. R. Co., Missouri Valley Land Co., Blair Town Lot & Land Co., and S. C. & I. F. Town Lot & Land Co. for the fiscal year ending Mar. 31st, 1879. Cedar Rapids, Iowa, 1879. 1 v., tab., 9 x 6, pap.
- 511 **KANAWHA & MICHIGAN RY.** Annual report of the Board of Directors to the Stockholders; 11th; for the year ended June 30th, 1901. Toledo, 1901. 1 v., 10 x 7, pap.
- 354 **KANSAS CITY, FORT SCOTT & MEMPHIS R. R.** Annual report; 1st-9th, 11th-12th; for the fiscal year ending June 30th, 1888-96, '98-99. Bost., 1889-99. 11 v., maps, 9 x 6, pap.
- 448 **KANSAS CITY, LAWRENCE & SOUTHERN R. R.** Report to the Stockholders; 1879. Bost., 1880. 1 v., 9 x 6, pap.
- 359 **KANSAS CITY, MEMPHIS & BIRMINGHAM R. R.** Annual report; 3d-8th; for the fiscal year ending June 30th, 1892, '95-99. Bost., 1892-99. 6 v., maps, 9 x 6, pap.
- 515 **KANSAS CITY SOUTHERN RY.** Annual report for the year ended June 30th, 1901. Kansas City, 1901. 1 v., 12 x 9, pap.
- 197 **LA CROSSE & MILWAUKEE R. R.** Annual report of the Directors to the Stockholders; 1857, '60. Note: Title of report, 1860, reads Report of the Receiver. Milwaukee, 1858-61. 2 v., 9 x 6, pap.
- 357 **LAKE ERIE & WESTERN R. R.** Annual report of the President and Directors to the Stockholders; 1st-15th; 1887-1901. Indianapolis, 1888-1901. 15 v., 9 x 6, pap.
- 356 **LAKE ERIE & WESTERN RY.** Annual report; 2d; for the fiscal year ending June 30th, 1882. La Fayette, Ind., 1882. 1 v., 10 x 7, pap.
- 77 **LAKE SHORE & MICHIGAN SOUTHERN RY.** Annual report of the Board of Directors to the Stockholders; 31st-32d; 1900-01. Cleveland, 1901-02. 2 v., 9 x 6, pap.
- 395 **LAWRENCE R. R.** Annual report to the Stock and Bondholders; 1882. no place, 1882. 1 v., 9 x 6, pap.
- 221 **LEHIGH VALLEY R. R.** Annual report of the Board of Directors to the Stockholders; 1st-46th; 1855-1900. Phil., 1863-1900. 46 v. in 38, maps, 9 x 6, 12 x 9, pap.
- 396 **LITTLE ROCK & FORT SMITH RY.** Report to the Stockholders; 1884-85. Note: Since 1886 results of operations have been embodied in reports of the St. Louis, Iron Mountain & Southern Ry. Co., which is controlled by the Missouri Pacific Ry. Co. Bost., 1885-86. 2 v., 9 x 6, pap.
- 306 —Same: 1880. Bost., 1881. 1 v., 9 x 6, b. p.
- 36 **LONDON, CHATHAM & DOVER RY.** Report of the Managing Committee to the Boards of the South Eastern and L., C. & D. Ry. Companies for the half year ending June 30th, 1900; Dec. 31st, '01-June 30th, '02. no place, 1900-02. 3 v., 13 x 9, pap.
- 68 **LONG ISLAND R. R.** Annual report for the year ending June 30th, 1843, 1901-02. N. Y., 1843-1902. 3 v., 9 x 6, pap.
- 397 **LOUISIANA WESTERN R. R.** Annual report; 1885. N. Y., 1885. 1 v., 14 x 9, pap.
- 78 **LOUISVILLE & NASHVILLE R. R.** Annual report of the President and Directors; 5th, 13th, 15th-20th, 43d, 46th-50th; for the fiscal year ending June 30th, 1856, '64, '66-71, '94, '97-1901. Louisville, 1856-1901. 14 v., maps, tab., 9 x 6, 11 x 9, pap.
- 449 **LOUISVILLE, EVANSVILLE & ST. LOUIS CONSOLIDATED R. R.** Report of the Receivers; 3d; 1895. no place, 1896. 1 v., tab., 9 x 6, pap.

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- 358 **LOUISVILLE, NEW ALBANY & CHICAGO RY.** Annual report for the year ending June 30th, 1879, '81, '88-97. Note: Title of report for 1879, reads "General Manager's Report." N. Y., 1880-97. 12 v., map, 9 x 6, pap.
- 398 **LOUISVILLE, NEW ORLEANS & TEXAS RY.** Annual report; 3d; 1889. N. Y., 1890. 1 v., 9 x 6, pap.
- 92 **MAINE CENTRAL R. R.** Annual report; 24th-25th, 27th-30th, 35th-41st; for the year ending June 30th, 1885-86, '88-91, '96-1902. Portland, 1885-1902. 13 v., 9 x 6, pap.
- MANCHESTER & AUGUSTA R. R.** See Wilmington, Columbia & Augusta R. R.
- 523 **MANISTEE & NORTH EASTERN R. R.** Annual report; 1901. no place, 1901. 1 v., 11 x 8, pap.
- 399 **MARQUETTE, HOUGHTON & ONTONAGON R. R.** Annual report of the Board of Directors to the Stockholders for the year ending Feb. 28th, 1885. Bost., 1885. 1 v., 9 x 6, pap.
- 152 **MEMPHIS & CHARLESTON R. R.** Annual report of the Board of Directors to the Stockholders; 15th, 32d; 1867, '86. Note: For 36th Annual report (1890), see Ag-464. Knoxville, 1867-86. 2 v., 9 x 6, pap.
- 201 **MEXICAN CENTRAL RY.** Annual report of the Board of Directors to the Stockholders; 12th-22d; 1891-1901. Bost., 1892-1902. 11 v., 9 x 6, pap.
- 400 **MEXICAN INTERNATIONAL R. R.** Annual report; 1892-1901. N. Y., 1893-1902. 10 v., 9 x 6, pap.
- 37 **MEXICAN NATIONAL R. R.** Annual report; 1st-15th; 1887-1901. no place, 1887-1901. 15 v., 9 x 6, pap.
- 360 **MEXICAN RY.** Report of the Directors for the half-year ended June, 1886; June, '87; June, '90-Dec., '98; Dec., '94-Dec., 1900. Lond., 1886-1901. 23 v., 13 x 8, 9 x 6, pap.
- 401 **MEXICAN SOUTHERN RY.** Report of the Directors and statement of accounts to Mar. 31st, 1890-1901. Lond., 1890-1901. 12 v., 9 x 6, pap.
- 24 **MICHIGAN CENTRAL R. R.** Report of the Directors to the Stockholders; 1869-71, '73-75, '91-93, 1900-01. Detroit, 1869-1902. 11 v., 9 x 6, pap.
- 6 —Same; 1853. Bost., 1853. 1 v., 9 x 5, b. p.
- 81 **MICHIGAN SOUTHERN & NORTHERN INDIANA R. R.** Annual report to the Stockholders for the year ending Mar. 1st, 1864, '66. Toledo, 1864-66. 2 v., 9 x 6, pap.
- 450 **MIDDLESEX R. R.** Return to the Secretary of the Commonwealth of Massachusetts; 2d; 1867. Charlestown, 1868. 1 v., 9 x 6, pap.
- 269 **MIDLAND RY.** Report of the Board of Directors to the half-yearly general meeting of the Proprietors; 75th-78th, 83d-84th, 87th-106th, 108th-117th; 1881-82, '86, '87-96, Dec., '97-June, 1902. Lond., 1881-1902. 36 v., 10 x 7, pap.
- 346 **MILWAUKEE & MINNESOTA R. R.** Report to the Stockholders, showing the effect of the late decisions of the Supreme Court of the United States in favor of the company; with a statement of the present financial position and business prospects of the road. Milwaukee, 1865. 83 + 5 pp., map, 8 x 6, pap.
- 86 **MILWAUKEE & PRAIRIE DU CHIEN RY.** Annual report to the Stockholders; 4th-6th; 1864-66. Milwaukee, 1865-67. 3 v., 9 x 6, pap.
- 308 **MILWAUKEE, LAKE SHORE & WESTERN RY.** Annual report to the Stockholders; 4th-5th; 1878-79. Milwaukee, 1879-80. 2 v., 9 x 6, b. p.
- Same; 9th; 1883. Milwaukee, 1884. 1 v., 9 x 6, b. p. Ab-455, p. 445.
- 183 **MINE HILL & SCHUYLKILL HAVEN R. R.** Report of the Board of Managers to the Stockholders at their annual meeting; 10th-20th, 24th, 28th, 34th-35th; 1838-48, '52, '56, '62-63. Phil., 1839-64. 15 v., maps, 9 x 6, pap.
- 137a **MINNEAPOLIS & ST. LOUIS R. R.** Annual report for the year ending June 30th, 1899-1902. N. Y., 1899-1902. 4 v., map, 9 x 6, pap.
- 507 **MINNEAPOLIS, ST. PAUL & SAULT STE. MARIE RY.** Annual report for the year ending June 30th, 1900-02. Minneapolis, 1900-02. 3 v., maps, 9 x 6, pap.
- 403 **MINNESOTA & NORTHWESTERN R. R.** Annual report; 1st; for the year ending June 30th, 1887. no place, 1887. 1 v., 9 x 6, pap.
- 451 **MINNESOTA CENTRAL RY.** Annual report of the President and Directors with the report of the Chief Engineer and Superintendent; 1st; 1865. Minneapolis, 1865. 1 v., 8 x 5, pap.
- MISSOURI, KANSAS & TEXAS RY.** Receiver's report; 1875. St. Louis, 1876. 1 v., 9 x 6, b. p. Zj-195, p. 108.
- 533 —Report of the Committee appointed by the Executive Committee of the Board of Directors to investigate the financial and physical condition of that company and its relations to the Missouri Pacific Ry. Co. N. Y., 1888. 116 pp., 9 x 6, pap.
- 361 —Report to the Stockholders for the year ending June 30th, 1873-79, '92-94, '96, 1901-02. N. Y., 1873-1902. 13 v., maps, 9 x 6, pap.

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- 79 **MISSOURI PACIFIC RY.** Annual report of the President to the Directors and Stockholders; 2d-21st; 1882-1901. Note: Contains reports of the Texas & Pacific Ry. Co. for the years 1882-84. St. Louis, 1883-1902. 20 v., maps, 9 x 6, 11 x 9, pap.
- 404 **MOBILE & GIRARD RY.** Annual report of the officers for the fiscal year ending May 31st, 1893, '96. Columbus, Ga., 1893-96. 2 v., 9 x 6, pap.
- 406 **MOBILE & MONTGOMERY RY.** Report of the President to the Stockholders; 1878. N. Y., 1879. 1 v., 9 x 6, pap.
- 80 **MOBILE & OHIO R. R.** Annual report; 24th, 32d, 35th-39th, 41st-53d; for the year ending June 30th, 1872, '80, '83-87, '89-1901. N. Y., 1873-1901. 20 v., 9 x 6, pap.
- 406 **MONADNOCK R. R.** Annual report of the Directors; 14th-15th, 21st; 1892-93, '89. Peterboro, 1892-99. 3 v., 9 x 6, pap.
- 452 **MONONGAHELA RIVER R. R.** Annual report to the Stockholders and Directors; 8th; 1898. Monongah, W. Va., 1899. 1 v., map, tab., 9 x 6, pap.
- 407 **MONTPELIER & WELLS RIVER R. R.** Report of the Directors; 5th-8th, 10th, 14th, 17th, 19th-24th; for the year ending Mar. 31st, 1882-85, '87, '91, '94, '96-1901. Montpelier, 1882-1901. 11 v., 9 x 6, pap.
- 458 **MORGAN'S LOUISIANA & TEXAS R. R. & STEAMSHIP CO.** Annual report; 1885. N. Y., 1885. 1 v., tab., 14 x 9, pap.
- 106 **NASHVILLE, CHATTANOOGA & ST. LOUIS RY.** Annual report of the President and Directors to the Stockholders; 26th-27th, 29th-33d, 35th-51st; for the year ending June 30th, 1877-78, '80-84, '86-1902. Nashville, 1877-1902. 24 v., maps, 9 x 6, pap.
- 408 **NAUGATUCK R. R.** Annual report of the President and Directors to the Stockholders; 1883-84. Bridgeport, 1883-84. 2 v., 9 x 6, pap.
- 409 **NEW ENGLAND R. R.** Annual report to the Stockholders; 1st-2d; 1896-97. Bost., 1896-97. 2 v., 9 x 6, pap.
- 448 **NEW HAVEN & NORTHAMPTON R. R.** Annual report of the Board of Directors to the Stockholders; 8th, 34th, 36th-38th, 40th, 47th, 49th-50th; 1844, '70, '72-74, '76, '83, '85-86. New Haven, 1845-86. 9 v., 9 x 6, pap.
- 454 **NEW LISBON RY.** Annual report of the President; 1st; 1864. Cleveland, 1865. 1 v., pl., 9 x 6, pap.
- 410 **NEW LONDON NORTHERN R. R.** Report of the Board of Directors to the Stockholders; 1861-62, '64-66, '75, '77-78, '92-98, 1900-01. Note: Subsequent to 1874, title reads Receipts and expenditures. New London, 1862-1901. 17 v., 9 x 6, pap.
- 411 **NEW LONDON, WILLIMANTIC & PALMER R. R.** Report of the Directors to the Stockholders; 1851. New London, 1851. 1 v., 9 x 6, pap.
- 502 **NEW MEXICO RY. & COAL CO.** Annual report; 1st; for the period ending June 30th, 1901. no place, 1901. 1 v., 9 x 6, pap.
- 347 **NEW YORK & ERIE R. R.** Address of the Directors to the Stockholders, Feb. 1st, 1850. N. Y., 1850. 13 pp., 9 x 6, pap.
- 97 —Report of the Directors to the Stockholders; 1843. N. Y., 1844. 1 v., 9 x 6, pap.
- 455 **NEW YORK & HARLEM R. R.** Report of the Board of Directors to the Stockholders, Jan., 1850. N. Y., 1850. 1 v., 8 x 5, pap.
- 237 **NEW YORK & NEW ENGLAND R. R.** Annual report to the Stockholders; 4th-6th, 8th-11th, 14th-19th; 1879-81, '83-86, '89-94. Bost., 1879-95. 13 v., maps, 9 x 6, pap.
- Statement of the financial condition on Dec. 31st, 1883. Bost., 1884. 204 pp., 9 x 6, b. p. Af-305, p. 139.
- 109 **NEW YORK & NEW HAVEN R. R.** Report of the Board of Directors to the Stockholders; 1863-64, '69. N. Y., 1863-69. 3 v., 9 x 6, pap.
- 11 **NEW YORK CENTRAL & HUDSON RIVER R. R.** Annual report of the Board of Directors to the Stockholders; 31st-33d; for the year ending June 30th, 1900-02. N. Y., 1900-02. 3 v., 12 x 9, pap.
- 417 **NEW YORK, CHICAGO & ST. LOUIS R. R.** Annual report of the Board of Directors to the Stockholders; 1st-15th; 1887-1901. Cleveland, 1888-1902. 15 v., 9 x 6, pap.
- 175 **NEW YORK, LAKE ERIE & WESTERN R. R.** Report of the Board of Directors to the Share and Bondholders; 1878, '81-83, '87-88, '92-93. N. Y., 1878-93. 8 v., 9 x 6, 12 x 9, pap.
- 110 **NEW YORK, NEW HAVEN & HARTFORD R. R.** Annual report of the Board of Directors to the Stockholders; 2d, 6th-8th, 15th-25th, 28th-30th; for the year ending June 30th, 1873, '77-79, '86-96, '99-1901. N. Y., 1874-1901. 18 v., maps, 9 x 6, pap.
- 362 **NEW YORK, ONTARIO & WESTERN RY.** Annual report of the President and Officers; 2d-8th, 10th-22d; with statements of accounts for the fiscal year ending June 30th, 1881-87, '89-1901. N. Y., 1882-1901. 20 v., 9 x 6, pap.
- 291 **NEW YORK, PENNSYLVANIA & OHIO R. R.** Annual report of the Board of Directors to the Bondholders and Shareholders; 9th, 13th; 1888, '92. no place, 1888-92. 2 v., 9 x 6, pap.

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- 363 **NEW YORK, PROVIDENCE & BOSTON R. R.** Annual report of the Directors to the Stockholders for the year ending June 30th, 1852, '77, '79, '81, '88-91. West-erly, R. I., 1852-91. 13 v., 9 x 6, pap.
- 516 **NEW YORK, SUSQUEHANNA & WESTERN R. R.** Annual report of the Board of Directors to the Stockholders; 8th; for the fiscal year ending June 30th, 1901. N. Y., 1901. 1 v., 12 x 9, pap.
- 456 **NEWPORT & WICKFORD R. R. & STEAMBOAT CO.** Report of the Board of Directors to the Stockholders; 1882. Newport, R. I., 1882. 1 v., 9 x 6, pap.
- 504 **NORFOLK & SOUTHERN R. R.** Report of the Board of Directors to the Stock-holders for the fiscal year ended June 30th, 1901-02. no place, 1901-02. 2 v., map, 9 x 6, pap.
- 236 **NORFOLK & WESTERN R. R.** Annual report of the Board of Directors to the Shareholders; 1st-8th, 13th, 15th; 1881-88, '93, '95. Phil., 1882-96. 10 v., maps, 9 x 6, pap.
- 236a **NORFOLK & WESTERN RY.** Annual report; 1st-5th; for the fiscal year ending June 30th, 1897-1901. N. Y., 1897-1901. 5 v., 9 x 6, pap.
- 418 **NORTH CAROLINA R. R.** Proceedings of the Stockholders at their annual meet-ing; 86th; 1885. Raleigh, 1885. 1 v., 9 x 6, pap.
- 419 **NORTH EASTERN R. R.** Reports of the officers at the annual meeting; 1885-91, '93-97. Note: For report, 1908, see Annual report of the Wilmington, Columbia & Augusta R. R. Co. Charleston, 1885-97. 12 v., 9 x 6, pap.
- 263 **NORTH EASTERN RY.** Report of the Directors to be submitted to the Proprie-tors at the half-yearly general meeting; 2d-58th, 63d-95th; 1855-83, '85-1901. New-castle-on-Tyne, 1855-1901. 90 v., 15 x 10, pap.
- 122 **NORTH PENNSYLVANIA R. R.** Annual report of the Board of Directors, with the reports of the Treasurer and the Engineer and Superintendent; 1st-15th, 18th-23rd, 26th; 1853-67, '70-75, '78. Phil., 1854-79. 22 v., 9 x 6, pap.
- 102 **NORTHERN CENTRAL RY.** Annual report of the President and Directors to the Stockholders; 1st-7th, 9th-15th, 17th-47th; 1855-61, '63-69, '71-1901. Phil., 1856-1902. 45 v., maps, 9 x 6, pap.
- 484 **NORTHERN PACIFIC R. R.** Report of the Receivers. no place, 1895. 44 pp., tab., 11 x 8, pap.
- 189a **NORTHERN PACIFIC RY.** Annual report; 1st-6th; for the fiscal year ending June 30th, 1897-1902. no place, 1897-1902. 6 v., maps, 12 x 9, pap.
- 106 **NORTHERN R. R.** Annual report of the Directors; 24th, 27th-28th, 35th-43d; 1869, '72-73, '80-88. Concord, N. H., 1869-88. 12 v., 9 x 6, pap.
- 122 **OHIO & MISSISSIPPI RY.** Report of the President and Directors to their Stockholders for the fiscal year ending June 30th, 1883, '89. Cin., 1883-89. 2 v., 9 x 6, pap.
- 420 **OHIO RIVER R. R.** Annual report to the Stockholders and Directors; 9th; 1892. no place, 1892. 1 v., map, 9 x 6, pap.
- 421 **OLD COLONY & FALL RIVER R. R.** Annual report of the Directors to the Stockholders; 8d, 6th; 1856, '59. Bost., 1857-61. 2 v., 9 x 6, pap.
- 422 **OLD COLONY & NEWPORT RY.** Annual report of the Directors to the Stock-holders; 1st-2d, 4th-8th; 1864-65, '67-71. Bost., 1864-71. 7 v., 9 x 6, pap.
- 216 **OLD COLONY R. R. CO.** Annual report of the Directors to the Stockholders; 9th-22d, 24th-37th; 1872-85, '87-1900. Bost., 1872-1900. 28 v., 9 x 6, pap.
- 351 **OLD COLONY R. R. CORPORATION.** Annual report of the Directors to the Stockholders; 6th-7th; 1849-50. Bost., 1849-50. 2 v., 9 x 6, pap.
- 5 —Same; 10th; 1853. Bost., 1854. 1 v., 9 x 6, b. p.
- 350 **OREGON & CALIFORNIA R. R.** Report of the President to the Stockholders. Note: Supplement to the reports of Messrs. Bretherton and Koehler for 1883. no place, 1883. 7 pp., 9 x 6, pap.
- 340 —Reports of R. Koehler (General Manager) and C. E. Bretherton (Vice-President); 1888. no place, 1888. 1 v., map, tab., 9 x 6, pap.
- 457 **OREGON & TRANSCONTINENTAL CO.** Report to the Stockholders; 1st; for the fiscal year ending June 30th, 1882. N. Y., 1882. 1 v., 8 x 5, pap.
- 173a **OREGON R. R. & NAVIGATION CO.** Annual report for the fiscal year ended June 30th, 1897-99. no place, 1897-99. 3 v., map, tab., 11 x 7, pap.
- 173 **OREGON RY. & NAVIGATION CO.** Annual report to the Stockholders for the year ending June 30th, 1881, '84-88. N. Y., 1881-88. 6 v., 9 x 6, pap.
- 523 **PACIFIC COAST CO.** Report to the Stockholders for the year ending June 30th, 1901-02. no place, 1901-02. 2 v., 9 x 6, pap.
- 235 **PANAMA R. R.** Annual report of the Board of Directors to the Stockholders; 25th-52d; 1877-1901. N. Y., 1878-1902. 25 v., maps, tab., 9 x 6, 11 x 9, pap.
- 460 —Communication of the Board of Directors to the Stockholders; together with the report of the Chief Engineer to the Directors, and an appendix containing tables of the grades, tangents, and curves of the P. R. R., and observations upon the levels of the Atlantic and Pacific Oceans. N. Y., 1855. 63 pp., map, tab., 9 x 6, pap.

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- 294 —Report, Apr. 1st, 1877. Note: Report for the six months ending Apr. 1st, 1877, N. Y., 1877. 12 pp., 9 x 6, pap.
- 416 **PENNSYLVANIA CO.** Annual report; 20th, 30th; 1891, 1901. Pittsburg, 1891-1901. 2 v., map, 9 x 6, pap.
- 276 **PENNSYLVANIA R. R.** Annual report of the Board of Directors to the Stockholders, presented at their annual meeting; 52d-55th; 1898-1901. Phil., 1898-1902. 4 v., 12 x 10, pap.
- 277 —Record of transportation lines owned and operated by, and associated in interest with the company; 1881, '87-88, '91, '94, '96. Phil., 1882-96. 6 v., 12 x 9, pap.
- 508 **PERE MARQUETTE R. R.** Annual report; 2d; 1901. Bost., 1901. 1 v., map, 10 x 7, pap.
- 428 **PETERSBURG R. R.** Annual report to the Stockholders; 1885. Petersburg, 1885. 1 v., 9 x 6, pap.
- 459 —Report of the Petersburg and Greensville & Roanoke R. R. Companies; 1855. Raleigh, 1855. 1 v., tab., 9 x 6, pap.
- 284 **PHILADELPHIA & ERIE R. R.** Annual report of the Managers to the Stockholders; 21st, 23d-27th, 30th-41st, 43d-50th; 1871, '73-77, '80-91, '93-1900. Phil., 1872-1901. 26 v., 9 x 6, pap.
- 49 **PHILADELPHIA & READING R. R.** Report of the President and Managers to the Stockholders; 1887-88, '92-96. Phil., 1889-96. 7 v., 9 x 6, pap.
- PHILADELPHIA & READING RY.** See Reading Co.
- 117 **PHILADELPHIA, WILMINGTON & BALTIMORE R. R.** Annual report; 17th, 19th, 22d-23d, 27th-29th, 34th-35th, 37th, 40th, 42d-45th, 49th-64th; 1854, '56, '59-60, '64-66, '71-72, '74, '77, '79-82, '86-1901. Phil., 1855-1901. 31 v., 9 x 6, pap.
- 164 **PITTSBURGH & CONNELLSVILLE R. R.** Annual report of the President and Directors to the Stockholders; 4th; 1856. Pittsburg, 1856. 1 v., 9 x 6, pap.
- 523 **PITTSBURGH & WESTERN RY.** Annual statements of operations during year ending June 30th, 1901. Pittsburg, 1901. 1 v., 9 x 6, pap.
- 505 **PITTSBURGH, BESSEMER & LAKE ERIE R. R.** Annual report of the President to the Stockholders; 4th; 1900. no place, 1900. 1 v., 9 x 6, pap.
- 364 **PITTSBURGH, CINCINNATI, CHICAGO & ST. LOUIS RY.** Annual report of the Board of Directors, together with abstracts from the reports of the Comptroller and General Manager; 1st-6th, 12th; 1890-95, 1901. Phil., 1891-1901. 7 v., 9 x 6, pap.
- 166 **PITTSBURGH, FORT WAYNE & CHICAGO R. R.** Annual report of the Directors to the Stockholders; 7th, 11th-12th, 14th-15th, 21st, 33d; 1868, '73-74, '76-77, '83, '95. Pittsburg, 1869-96. 7 v., 9 x 6, pap.
- 106a **PITTSBURGH, FORT WAYNE & CHICAGO RY.** Annual report of the Board of Directors to the Stockholders; 4th; 1860. Pittsburg, 1861. 1 v., 9 x 6, pap.
- 463 —Circular to the Bondholders and Stockholders concerning recent financial arrangements. no place, 1864. 7 pp., 9 x 6, pap. no title-page.
- 415 **PORTLAND & KENNEBEC R. R.** Annual report of the Directors and Treasurer; 5th; 1868. Augusta, 1869. 1 v., 9 x 6, pap.
- 114 **PORTLAND & OGDENSBURG R. R.** Annual report of the President and Directors to the Stockholders; 17th; 1885. Portland, Me., 1885. 1 v., 9 x 6, pap.
- 114a **PORTLAND & OGDENSBURG RY.** Annual report of the President and Directors to the Stockholders; 1st; 1886. Portland, Me., 1887. 1 v., 9 x 6, pap.
- 414 **PORTLAND & ROCHESTER R. R.** Annual report; 5th, 11th; for the year ending June 30th, 1896, '92. Portland, Me., 1896-92. 2 v., 9 x 6, pap.
- 418 **PROVIDENCE & SPRINGFIELD R. R.** Annual Directors' report to the Stockholders; 14th, 18th; 1886, '90. Providence, 1886-90. 2 v., 9 x 6, pap.
- 412 **PROVIDENCE & WORCESTER R. R.** Annual report of the Directors to the Stockholders; 4th-44th; 1849-88. Providence, 1849-88. 41 v. in 25, 9 x 6, pap.
- 548 **QUEBEC & LAKE ST. JOHN RY.** Annual report, with traffic statements and statistics, submitted to the annual general meeting of Shareholders; 1901. Quebec, 1902. 1 v., tab., maps, 9 x 6, pap.
- QUINCY, MISSOURI & PACIFIC R. R.** Annual report of the Purchasing Committee and its agent to the owners, the holders of the first mortgage bonds, for the fiscal year ending June 30th, 1887. Quincy, Ill., 1887. 1 v., 9 x 6, b. p. Ab-456, p. 385.
- QUINCY, OMAHA & KANSAS CITY RY.** Report of the President and Directors; 1st; 1888. no place, 1889. 1 v., 9 x 6, b. p. Aa-79, p. 93.
- 481 **READING CO.** Annual report; 1st-4th; for the fiscal year ended June 30th, 1898-1901. Note: 1st report is for the nineteen months, Dec., 1896-June, '98. no place, 1898-1901. 4 v., maps, 12 x 9, pap.
- RENSSELAER & SARATOGA R. R.** Report of the Executive Committee to the Board of Directors and Stockholders, July 1st, 1867. Troy, 1867. 13 pp., 9 x 6, b. p. Aa-85, p. 269.

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- 427 **RICHMOND & DANVILLE R. R.** Report of the President and Board of Directors; 22d-38th, 40th-44th; for the year ending June 30th, 1869-85, '87-91. Note: 30th report is accompanied by a supplementary report of the General Superintendent, on the cost of transportation. no place, 1869-91. 23 v., 9 x 6, 12 x 9, pap.
- 130 **RICHMOND & PETERSBURG R. R.** Proceedings of the Stockholders at their general meetings, and reports made by the President and Directors to the Stockholders; 41st-46th, 50th, 52d-53d, 55th-56th, 58th-59th, 61st-62d, 64th; 1875-80, '84, '86-87, '89-90, '92-93, '95-96, '98. Note: Title now reads, Annual report. Richmond, 1875-98. 16 v., 9 x 6, pap.
- 458 **RICHMOND & WEST POINT TERMINAL RY. & WAREHOUSE CO.** Annual report; 1882-83, '85, '89-91. N. Y., 1882-91. 6 v., tab., 9 x 6, pap.
- 464 —Annual reports of the R. & W. P. T. Ry. & Warehouse Co. and the railroad systems controlled; 1890. no place, 1890. 1 v., 9 x 6, pap.
- 245 **RICHMOND, FREDERICKSBURG & POTOMAC R. R.** Annual meeting of the Stockholders; 27th, 30th, 33d-35th, 37th-38th, 45th-61st, 63d-69th; 1860, '63, '65-67, '69-70, '77-93, '95-1901. Richmond, 1860-1901. 31 v., 9 x 5, pap.
- 424 **RIO GRANDE SOUTHERN R. R.** Annual report for the fiscal year ended June 30th, 1896-97, '99-1901. Denver, 1896-1901. 5 v., 9 x 6, pap.
- 240 **RIO GRANDE WESTERN RY.** Annual report to the Stockholders for the year ending June 30th, 1894, '96-1901. N. Y., 1894-1901. 7 v., maps, 9 x 6, pap.
- 423 **ROCHESTER & PITTSBURGH R. R.** Annual report; 1883-84. N. Y., 1883-84. 2 v., 9 x 6, pap.
- 129 **RUTLAND R. R.** Report of the Directors; 6th, 16th-21st, 24th-34th; for the year ending June 30th, 1873, '83-88, '91-1901. Rutland, 1873-1901. 18 v., 9 x 6, pap.
- 425 **ST. JOHNSBURY & LAKE CHAMPLAIN R. R.** Annual report; 1st; for the year ending June 30th, 1881. St. Johnsbury, Vt., 1881. 1 v., 9 x 6, pap.
- 348 **ST. JOSEPH & DENVER CITY R. R.** Report, 1873. Note: Statement by the President showing the condition and affairs of the company. no place, 1873. 27 pp., 9 x 6, pap.
- 521 **ST. JOSEPH & GRAND ISLAND RY.** Annual report; 5th; for the year ending June 30th, 1901. N. Y., 1901. 1 v., 9 x 6, pap.
- 132 **ST. LOUIS, ALTON & TERRE HAUTE R. R.** Annual report of the Board of Directors; 13th-14th, 16th, 18th, 21st, 23d, 29th; for the year ending June 30th, 1875-76, '78, '80, '83, '85, '91. N. Y., 1876-92. 7 v., 9 x 6, pap.
- 226 —Report of the Committee appointed by the Stockholders, May 27th, 1873. Note: Committee appointed to ascertain the condition of the company. N. Y., 1873. 18 pp., 9 x 6, pap.
- 426a **ST. LOUIS & SAN FRANCISCO R. R.** Annual report; 1st-6th; for the fiscal year ended June 30th, 1897-1902. St. Louis, 1897-1902. 6 v. in 2, maps, 9 x 6, ½ mor.
- 426 **ST. LOUIS & SAN FRANCISCO RY.** Annual report; 3d, 13th; 1879, '89. N. Y., 1880-90. 2 v., 9 x 6, pap.
- 308 —Same; 1st; 1877. N. Y., 1878. 1 v., 9 x 6, b. p.
- 210 **ST. LOUIS, IRON MOUNTAIN & SOUTHERN RY.** Annual report to the Stockholders; 6th-7th; 1879-80. St. Louis, 1880-81. 2 v., 9 x 6, pap.
- 365 **ST. LOUIS SOUTHWESTERN RY.** Annual report to the Directors and Stockholders; 1st-10th; for the fiscal year ended June 30th, 1892-1901. Note: Includes the reports of the St. Louis Southwestern Ry. of Texas and the Tyler South-eastern Ry. St. Louis, 1892-1901. 10 v., maps, 9 x 6, pap.
- ST. LOUIS SOUTHWESTERN RY. OF TEXAS.** See St. Louis Southwestern Ry.
- 217 **ST. LOUIS, VANDALIA & TERRE HAUTE R. R.** Annual report; 10th-31st; for the fiscal year ending Oct. 31st, 1886-1901. St. Louis, 1887-1902. 16 v., 9 x 6, pap.
- 430 **ST. PAUL & DULUTH R. R.** Report for the fiscal year ending June 30th, 1883, '91-92, '94-99. St. Paul, 1884-99. 9 v., 9 x 6, pap.
- 241 **ST. PAUL, MINNEAPOLIS & MANITOBA RY.** Annual report; 2d-12th, 15th, 17th-20th; for the year ending June 30th, 1881-91, '94, '96-99. St. Paul, 1881-99. 16 v., 9 x 6, pap.
- 431 **SAN ANTONIO & ARANSAS PASS RY.** Report of Receivers for year ending July 14th, 1891. San Antonio, 1891. 1 v., 9 x 6, pap.
- 432 **SAN FRANCISCO & NORTH PACIFIC RY.** Annual report and statement of accounts; 1st-12th; for the year ending June 30th, 1890-1901. no place, 1890-1901. 12 v., pl., maps, 9 x 6, pap.
- 433 **SANDY RIVER R. R.** Reports of officers; 1886, '88, '90-91. Phillips, Me., 1886-91. 4 v., 9 x 6, pap.
- 530 **SANTA FE, PRESCOTT & PHOENIX RY.** Annual report to the Stockholders; 7th-8th; for the fiscal year ended June 30th, 1901-02. no place, 1901. 2 v., maps, 9 x 6, pap.
- 469 **SANYO RY.** Extract of twenty-eighth semi-annual report, for the term ending Sept. 30th, 1901. Note: Text in Japanese and English. no place, 1901. 35 pp., map, 10 x 7, pap.

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- 529 **SEABOARD AIR LINE RY.** Annual report; 1st; for the fiscal year ending June 30th, 1901. Norfolk, Va., 1901. 1 v., map, 11 x 8, pap.
- 165a **SOUTH CAROLINA RY.** Report of the President and Directors; 1888-84, '91. Note: Title of report for 1891 reads, Report of the Receiver. Charleston, 1884-91. 8 v., 9 x 6, pap.
- 266 **SOUTHEASTERN RY.** Report of the Directors to be submitted to the Proprietors at the half-yearly general meeting; 83d-94th, 96th-98th, 60th-93d, 99th, 101st-132d; 1853; July, '54-July, '65; July, '66-Dec., '82; Dec., '85; Dec., '86-June, 1902. Lond., 1853-1902. 92 v., 14 x 10, pap.
- 36 —Report of the Managing Committee to the Boards of the Southeastern and London, Chatham & Dover Ry. Companies for the half-year ending June 30th, 1900; Dec. 31st, '01-June, '02. no place, 1900-02. 8 v., 13 x 9, pap.
- 581 **SOUTHERN CALIFORNIA RY.** Report to the Stockholders for the fiscal year ending June 30th, 1901. no place, 1901. 1 v., 9 x 6, pap.
- 525 **SOUTHERN INDIANA RY.** Annual report; 4th; for the year ended June 30th, 1901. no place, 1901. 1 v., map, 9 x 6, pap.
- 285 **SOUTHERN PACIFIC CO.** Annual report of the S. P. Co. and its proprietary companies; 5th-9th, 11th, 14th-17th; for the year ended June 30th, 1889-93, '95, '98-1901. San Fran., 1890-1901. 10 v., 12 x 9, pap.
- 366 **SOUTHERN RY.** Annual report; 1st-7th; for the year ended June 30th, 1895-1901. N. Y., 1895-1901. 7 v., maps, tab., 12 x 9, pap.
- 311 **SOUTHWESTERN R. R.** Report of the Chief Engineers, Presidents and Superintendents; 1st-22d; 1848-69. Macon, 1869. 641 + 1 pp., 9 x 6, cl.
- 312 —Report of the President to the Stockholders; 1899-1900. Macon, 1901. 1 v., 9 x 6, pap.
- SULLIVAN COUNTY R. R.** See Vermont Valley R. R. of 1871.
- 462 **TERRE HAUTE, ALTON & ST. LOUIS R. R.** Report of A. C. Flagg, Trustee and surviving Receiver, to the Bondholders, giving detailed statements of the receipts and expenditures of William D. Griswold, Agent, from Dec. 12th, 1859, to June 30th, 1862; together with sundry documents. N. Y., 1863. 78 pp., tab., 9 x 6, pap.
- 461 —Report of W. D. Griswold, Agent of the Trustees and General Superintendent of the railroad, to the Trustees from Dec. 12th, 1859 to Dec. 31st, 1860. N. Y., 1861. 12 pp., tab., 9 x 6, pap.
- 139 **TERRE HAUTE & INDIANAPOLIS R. R.** Annual report of the President and Directors to the Stockholders; 53d; 1901. Terre Haute, 1902. 1 v., 9 x 6, pap.
- 306 —Same; 19th-22d; 1868-71. Terre Haute, 1868-71. 4 v., 9 x 6, b. p.
- 527 **TERRE HAUTE & LOGANSPOUT RY.** Annual report; 3d; 1901. no place, 1901. 1 v., 9 x 6, pap.
- 310 **TEXAS & PACIFIC RY.** Annual report to the Stockholders; 1878-79, '88-1901. Note: For reports, 1882-84, see Annual reports of the Missouri Pacific Ry., 1882-84. N. Y., 1878-1901. 16 v., 9 x 6, pap.
- 526 **TEXAS CENTRAL R. R.** Annual report; 9th; for the year ending June 30th, 1901. Waco, Tex., 1901. 1 v., map, 9 x 6, pap.
- 510 **TOLEDO & OHIO CENTRAL RY.** Annual report of the Board of Directors to the Stockholders; 16th; for the year ended June 30th, 1901. Toledo, 1901. 1 v., 10 x 7, pap.
- 434 **TOLEDO, ANN ARBOR & NORTH MICHIGAN RY.** Annual report; 10th; 1890. Toledo, 1890. 1 v., map, 9 x 6, pap.
- 306 **TOLEDO, PEORIA & WARSAW RY.** Report of the Committee of Stockholders showing its present condition and future prospects, together with the financial affairs of the company. N. Y., no date. 19 pp., 9 x 6, b. p.
- 479 **TOLEDO, PEORIA & WESTERN RY.** Annual report of the Board of Directors; 4th-15th; for the year ending June 30th, 1891-1902. Peoria, 1891-1902. 12 v., 9 x 6, pap.
- Same; 3d; 1890. Peoria, 1890. 1 v., 9 x 6, b. p. Aa-85, p. 177.
- TOLEDO, SAGINAW & MUSKOGON RY.** See Detroit, Grand Haven & Milwaukee Ry.
- 534 **TOLEDO, ST. LOUIS & WESTERN R. R.** Annual report; 1st-2d; for the fiscal year ending June 30th, 1901-02. no place, 1901-02. 2 v., 12 x 9, pap.
- 435 **TOLEDO, WABASH & WESTERN R. R.** Report of the President and Executive Committee to the Stock and Bondholders; 1856. N. Y., 1856. 1 v., 9 x 6, pap.
- 306 **TOLEDO, WABASH & WESTERN RY.** Receiver's report, Feb. 23d-June 30th, 1875. no place, 1875. 23 pp., 9 x 6, b. p.
- 116 **TORONTO & NIPISSING RY.** Proceedings at the annual general meeting of Shareholders, with report by the Directors and statement of the capital and revenue accounts for the year ending June 30th, 1874, '76. Toronto, 1874-76. 2 v., 9 x 6, pap.

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- TYLER SOUTHEASTERN RY. See St. Louis Southwestern Ry.
- 439 UNION PACIFIC, DENVER & GULF RY. Report of the Receiver; 1896. no place, 1896. 1 v., map, 9 x 6, pap.
- 148 UNION PACIFIC R. R. (1862.) Report to the Stockholders; 1870, '76, '78-79. N. Y., 1871-80. 4 v., 9 x 6, pap.
- Same; 1870. N. Y., 1871. 1 v., 9 x 6, b. p. Af-305, p. 81.
- Same; 1874. N. Y., 1875. 1 v., 9 x 6, b. p. Af-300, p. 395.
- 293a UNION PACIFIC R. R. (1897.) Annual report; 1st-5th; for the year ending June 30th, 1898-1902. no place, 1898-1902. 5 v., map, 12 x 9, pap.
- 298 UNION PACIFIC RY. Annual report of the Directors to the Stockholders; 1st-18th; 1880-97. Bost., 1881-97. 18 v., 9 x 6, 12 x 9, pap.
- 441 —Report of the Government Directors to the Secretary of the Interior for the year ending June 30th, 1864-86, '88-98. Wash., 1866-98. 18 v., 9 x 6, pap.
- UNITED NEW JERSEY R. R. & CANAL CO. Report of the State Director; 1853, '56, '60, '71, '74-79, '83-85, '87-91, '98-1901. (See Ah-82.)
- 436 UTICA & BLACK RIVER R. R. Annual report to the Stockholders; 1877. Utica, 1878. 1 v., map, 9 x 6, pap.
- 440 VERMONT VALLEY R. R. OF 1871. Annual report of the Directors to the Stockholders for the year ending June 30th, 1895. Note: Contains report of the Sullivan County R. R. Co. Bost., 1895. 1 v., 9 x 6, pap.
- 437 VICKSBURG, SHREVEPORT & PACIFIC R. R. Annual report and statement of accounts; 7th-16th; for the year ending June 30th, 1891-1900. no place, 1891-1900. 10 v., 9 x 6, pap.
- 437a VICKSBURG, SHREVEPORT & PACIFIC RY. Annual report and statement of accounts; 1st; for the year ended June 30th, 1901. no place, 1901. 1 v., 9 x 6, pap.
- 367 WABASH R. R. Annual report of the Directors; 3d, 7th-12th, for the fiscal year ending June 30th, 1892, '96-1901. St. Louis, 1892-1901. 7 v., maps, 9 x 6, pap.
- 155 WABASH RY. Receiver's report of receipts and disbursements, Feb. 1st to Feb. 29th, 1888, inclusive. Chic., 1888. 6 pp., 9 x 6, pap.
- 438 WABASH, ST. LOUIS & PACIFIC RY. Annual report; 1st, 3d; 1880, '82. N. Y., 1881-83. 2 v., 9 x 6, pap.
- 368 WEST JERSEY & SEASHORE R. R. Annual report; 1st-6th; 1896-1901. Phil., 1897-1901. 6 v., maps, 9 x 6, pap.
- 369 WEST JERSEY R. R. Annual report of the Board of Directors to the Stockholders; 18th-31st, 33d-34th, 36th-38th; 1875-88, '90-91, '93-95. Phil., 1876-96. 19 v., 9 x 6, pap.
- 371 WEST VIRGINIA & PITTSBURGH R. R. Annual report of the President and Directors to the Stockholders for the year ended June 30th, 1893-94, '96. Balt., 1898-96. 3 v., 9 x 6, pap.
- 370 WEST VIRGINIA CENTRAL & PITTSBURG RY. Annual report of the President and Directors to the Stockholders; 1st, 3d-5th, 7th-20th; 1882, '84-86, '88-1901. Balt., 1888-1901. 18 v., maps, 9 x 6, pap.
- 372 WESTERN MARYLAND R. R. Annual report to the Stockholders; 20th-39th; for the year ending Sept. 30th, 1882-1901. Balt., 1882-1902. 20 v., 9 x 6, pap.
- 373 WESTERN NEW YORK & PENNSYLVANIA R. R. Annual report of the Board of Directors to the Stockholders; 2d; for the year ending Sept. 30th, 1889. Buffalo, 1890. 1 v., map, 9 x 6, pap.
- 374 WESTERN NORTH CAROLINA R. R. Report of the Board of Directors for the year ending Sept. 30th, 1885-86. no place, 1885-86. 2 v., 9 x 6, pap.
- 482 WESTERN NORTH CAROLINA R. R., WESTERN DIVISION. Proceedings of the annual meeting of the Stockholders, together with the reports of the President, Chief Engineer and Treasurer; 2d; 1870. Salisbury, 1870. 1 v., 9 x 6, pap.
- 149 WESTERN R. R. Annual report of the Directors to the Stockholders; 12th, 20th, 23d, 25th-26th, 32d; 1846, '54, '57, '59-60, '66. Note: 25th report is accompanied by a Supplement showing the effects of the award of the Commissioners appointed to apportion the receipts for joint business between the W. R. R. Corporation and the Boston and Worcester Corporation. Springfield, Mass., 1847-67. 6 v., 9 x 6, pap.
- 279 —Same; 6th-9th; 1840-43. Bost., 1841-44. 4 v., 9 x 5, b. p.
- Same; 18th; 1862. Bost., 1853. 1 v., 8 x 5, b. p. Ab-1, p. 81.
- Same; 20th-21st; 1854-55. Springfield, 1855-56. 2 v., 9 x 5, b. p. Ah-26, p. 147.
- 343 —Proceedings, Jan. 27th, 1841; including an address to the people of the Commonwealth of Massachusetts on the application for an additional loan of the State credit. Bost., 1841. 16 pp., 9 x 6, pap.
- 344 —Proceedings of the annual meeting held Mar. 12th, 1840; including the report of the Committee of Investigation appointed by the Stockholders. Bost., 1840. 56 pp., 9 x 6, pap.

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- 490 **WESTERN RY. OF ALABAMA.** Annual report; 19th-30th; for the fiscal year ended June 30th, 1901-02. no place, 1901-02. 3 v., 9 x 6, pap.
- 375a **WHEELING & LAKE ERIE R. R.** Annual report of the Board of Directors to the Stockholders; 1st-2d; for the fiscal year ending June 30th, 1900-01. Cleveland, 1901-01. 2 v., maps, 9 x 6, pap.
- 375 **WHEELING & LAKE ERIE RY.** Annual report; 3d, 6th-6th; 1898, '92-95. Toledo, 1899-95. 5 v., 9 x 6, pap.
- 490 **WILMINGTON & NORTHERN R. R.** Annual report of the Directors; 1st-22d; 1877-98. Phil., 1877-98. 22 v., 9 x 6, pap.
- 495 —Report of the Directors to the Stockholders, May 7th, 1877, for the four months ending Apr. 30th, 1877. Conesville, 1877. 8 pp., 9 x 6, pap.
- 90 **WILMINGTON & READING R. R.** Report of the Directors to the Stockholders; 1857-62, 71-72. Wilmington, 1868-72. 4 v., map, 9 x 6, pap.
- WILMINGTON & WELDON R. R.** See Wilmington, Columbia & Augusta R. R.
- 376 **WILMINGTON, COLUMBIA & AUGUSTA R. R.** Annual reports of the Officers; 1864, '68, '91, '98. Note: Reports for 1868, '91, '98 contain also reports of various allied companies. Wilmington, N. C., 1864-98. 4 v., tab., 9 x 6, pap.
- WILSON & SUMMERTON R. R.** See Wilmington, Columbia & Augusta R. R.
- 376 **WISCONSIN CENTRAL CO.** Annual report of the Board of Directors to the Stockholders for the year ending June 30th, 1898-99. Note: Contains also reports of the Wisconsin Central R. R. Co. Title of later reports reads, Report of Receivers. Two reports were issued in 1895, one being the annual report, the other the Report of the Receiver from Sept., 1893 to June, 1895. Milwaukee, 1899-99. 11 v., maps, 10 x 7, pap.
- WISCONSIN CENTRAL R. R.** See Wisconsin Central Co.
- 495 **WISCONSIN CENTRAL RY.** Annual report; 1st-2d; for the fiscal year ending June 30th, 1900-01. no place, 1900-01. 2 v., maps, 9 x 6, pap.
- 146 **WORCESTER & NASHUA R. R.** Annual report of the Directors to the Stockholders; 1881, '83. Worcester, 1861-83. 2 v., 9 x 6, pap.
- 377 **WORCESTER, NASHUA & ROCHESTER R. R.** Annual report of the Board of Directors to the Stockholders; 1st; for the year ending Sept. 30th, 1864. Worcester, 1864. 1 v., 9 x 6, pap.
- 170 **WRIGHTSVILLE & TENNILLE R. R.** Annual report; 8th-10th, 12th-13th, 17th-18th; for the fiscal year ending June 30th, 1891-93, '95-96, 1900-01. Savannah, 1891-1901. 7 v. in 6, 9 x 6, pap.
- 496 **YAZOO & MISSISSIPPI VALLEY R. R.** Report and accounts; 19th-30th; for the fiscal year ended June 30th, 1900-01. no place, 1900-01. 2 v., 14 x 8, pap.
- 477 —Report of annual inspection of track, showing comparative standing of each section; 1893-1900. Illinois Central R. R. Co. and Y. & M. V. R. R. Co. Chic., 1893-1900. 8 v., 14 x 10, pap.

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- 69 **ALABAMA—RAILROAD COMMISSIONERS.** Annual report; 8th, 10th-21st; for the year ending June 30th, 1888, '90-1901. Montgomery, 1888-1901. 13 v., 9 x 6, cl.
- 91 **ARKANSAS—RAILROAD COMMISSION.** Annual report; 1st-2d; 1900-01. Little Rock, 1901-02. 2 v., tab., 9 x 6, cl.
- 75 **CALIFORNIA—BOARD OF RAILROAD COMMISSIONERS.** Annual report; 6th, 12th; 1866, '91. Sacramento, 1866-91. 2 v., 9 x 6, pap.
- 38 **CONNECTICUT—JOINT STANDING COMMITTEE ON RAILROADS.** Report in regard to passenger fares and freights on the several railroads of the state; also contracts and leases of the New York & New Haven R. R. Co., New York & Harlem R. R. Co., Hartford & New Haven R. R. Co. and Shore Line R. R. Co. no place, no date. 83 pp., 9 x 6, pap.
- 15 **CONNECTICUT—RAILROAD COMMISSIONERS.** Annual report; to which are added statistical tables compiled from annual returns of the railroad companies of the state; 17th, 48th-49th; 1870, 1900-01. Hartford, 1870-1901. 3 v., 9 x 6, pap., cl.
- 73 **DAKOTA—TERRITORIAL BOARD OF RAILROAD COMMISSIONERS.** Annual report; 4th-5th; for fiscal year ending June 30th, 1888-89. Watertown, 1888-89. 2 v., 9 x 6, cl.
- 90 **FLORIDA—RAILROAD COMMISSION.** Annual report; for the year ending Mar. 1st, 1891, '98-1902. Tallahassee, 1891-1902. 6 v., 9 x 6, bds., pap., cl.
- 18 **GEORGIA—RAILROAD COMMISSION.** Annual report; 1st, 15th, 25th; 1880, '87, 1901. Note: Prior to 1888 the report was published semi-annually. Atlanta, 1880-1901. 3 v., 11 x 9, pap.
- 77 **ILLINOIS—AUDITOR.** Communication concerning the assessed value of railroad property; made to the Senate, Jan. 16, 1874. Springfield, 1874. 8 pp., 9 x 6, b. p.

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- 77 —Report of the registered railroad debt of counties, townships, cities and towns of the State of Illinois, 1873. Springfield, 1873. 21 pp., 9 x 6, b. p.
- 60 **ILLINOIS—BOARD OF COMMISSIONERS OF PUBLIC WORKS.** Abstract of the proceedings, Dec. Session, 1837. Vandalia, 1837. 76 pp., 9 x 6, pap.
- ILLINOIS—HOUSE COMMITTEE ON FINANCE.** Report, in relation to the payment by the Illinois Central R. R. Co. of seven per cent. of its gross earnings into the treasury of the state. Springfield, 1883. 68 pp., 9 x 6, b. p. Ab-455, p. 149.
- 20 **ILLINOIS—RAILROAD AND WAREHOUSE COMMISSION.** Annual report; 8th, 10th, 12th-14th, 26th, 29th-31st; 1878, '80, '82-84, '90, '99-1901. Springfield, 1879-1902. 9 v., il., 9 x 6, cl.
- 77 **ILLINOIS—STATE BOARD OF EQUALIZATION.** Proceedings; 1873. Springfield, 1873. 1 v., tab., 9 x 6, b. p.
- 62 **INDIANA—STATE BOARD OF EQUALIZATION.** Proceedings in the assessment and equalization of railroad property for the purpose of taxation; 1882. Note: For subsequent reports on taxation of railroad property see Indiana-State Board of Tax Commissioners, Proceedings. Indianapolis, 1882. 1 v., tab., 9 x 6, pap.
- Same; 1880. Indianapolis, 1880. 1 v., 9 x 6, b. p. Af-295, p. 55.
- 88 **INDIANA—STATE BOARD OF TAX COMMISSIONERS.** Proceedings; 1891-97, '99-1901. Indianapolis, 1891-1901. 10 v., 9 x 6, pap.
- 14 **IOWA—BOARD OF RAILROAD COMMISSIONERS.** Annual report; 21st-24th; for the year ending June 30th, 1898-1901. Des Moines, 1898-1902. 4 v., 9 x 6, cl.
- 42 **IOWA—EXECUTIVE COUNCIL.** Annual report of the assessed valuation of railroad property in the State of Iowa; 9th, 11th, 13th, 15th-16th, 18th-25th, 27th-30th; for the fiscal year ending Mar., 1880, '82, '84, '86-87, '89-90, '98-1901. Des Moines, 1880-1901. 17 v., 9 x 6, pap.
- 72 **KANSAS—BOARD OF RAILROAD COMMISSIONERS.** Annual report; 1st, 3d, 8th, 10th-16th; 1883, '85, '90, '92-98. Topeka, 1884-99. 10 v., maps, tab., 9 x 6, cl.
- 70 **KENTUCKY—RAILROAD COMMISSIONERS.** Report; 12th, 15th-18th; 1891, '94-97. Louisville, 1891-97. 5 v., 10 x 6, ½ cl.
- 92 **LOUISIANA—RAILROAD COMMISSION.** Annual report; 1st-2d; for the fiscal year ending May 1st, 1900-01. no place, 1900-01. 2 v., 9 x 6, cl.
- 94 **LOUISIANA—STATE BOARD OF APPRAISERS.** Report showing the assessments made of property employed in the railway, telegraph, telephone, sleeping car and express business; 1890. Baton Rouge, 1900. 1 v., 9 x 6, pap.
- 57 **MADRAS—PUBLIC WORKS DEPARTMENT—RY. BRANCH.** Administration report; 1900. Madras, 1900. 1 v., 13 x 6, pap.
- 87 —Memorandum on the railways controlled and inspected by the officers of the Railway Branch; 1901. Madras, 1901. 1 v., 13 x 8, pap.
- 16 **MAINE—RAILROAD COMMISSIONERS.** Annual report; with statistical tables compiled from the annual returns of the railroad companies operating railroads in the state; 19th-20th, 23d-24th, 28th; 1877-78, '81-82, '86. Augusta, 1878-86. 5 v., 9 x 6, pap.
- 8 **MASSACHUSETTS—BOARD OF RAILROAD COMMISSIONERS.** Annual report; 32d-33d; 1900-01. Bost., 1901-02. 2 v., 9 x 6, cl.
- 61 **MASSACHUSETTS—COMMITTEE ON RAILWAYS.** Report of the eighteenth hearing on the Hoosac Tunnel consolidation, Mar. 7th, 1873. Note: Statements in reference to Boston Harbor and its facilities as a shipping centre. Bost., 1873. 15 pp., 9 x 6, pap.
- 59 **MASSACHUSETTS—SECRETARY OF THE COMMONWEALTH.** Abstract of the returns of the railroad corporations in Massachusetts; 1859. Bost., 1860. 1 v., 9 x 6, pap.
- 3 **MICHIGAN—COMMISSIONER OF RAILROADS.** Annual report; 9th, 11th-16th, 18th, 20th-22d, 25th-29th; 1880, '83-88, '90, 92-94, '97-1901. Lansing, 1881-1901. 18 v., pl., 9 x 6, cl. sh.
- 84 **MINNESOTA—RAILROAD AND WAREHOUSE COMMISSION.** Annual report to the Governor; 7th-13th, 15th-17th; 1891-97, '99-1901. Minneapolis, 1892-1901. 10 v., 9 x 6, pap.
- 35 **MINNESOTA—RAILROAD COMMISSIONER.** Annual report; 7th-11th; for the year ending June 30th, 1877-81. St. Paul, 1878-82. 5 v., 9 x 6, pap.
- 49 **MISSISSIPPI—RAILROAD COMMISSION.** Biennial report; 3d, 5th, 7th-8th; for the two years ending June 30th, 1891, '95, '99, 1901. Jackson, 1891-1901. 4 v., map, 9 x 6, pap. cl.
- 22 **MISSOURI—RAILROAD COMMISSIONERS.** Annual report; 4th, 8th, 14th-15th, 17th, 20th-21st, 24th-26th; 1878, '82, '88-89, '91, '95-96, '99-1901. Jefferson City, 1879-1902. 9 v., 9 x 6, pap.
- 85 **MISSOURI—STATE BOARD OF EQUALIZATION.** Journal; 1890. Jefferson City, 1890. 1 v., 9 x 6, ¾ sh.
- 95 **NEBRASKA—BOARD OF TRANSPORTATION.** Annual report; 9th; for the year ending June 30th, 1895. Lincoln, 1896. 1 v., 9 x 6, cl.

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- Report to the Board upon the matter of the strike of the Brotherhoods of Locomotive Engineers and Firemen of the Burlington & Missouri River R. R. in Nebraska, by O. P. Mason, Secretary. Lincoln, 1888. 19 pp., 9 x 6, b. p. Aa-85, p. 75.
- 33 NEW HAMPSHIRE—RAILROAD COMMISSIONERS. Annual report; 19th, 25th, 31st, 33d-37th, 44th, 46th, 52d-53d; 1863, '69, '75, '77-81, '88, '90, '96-97. Concord, 1863-98. 12 v., 9 x 6, pap.
- 32 NEW JERSEY—SECRETARY OF STATE. Annual reports of the railroad and canal companies of the State; 1853, '56, '60, '71, '74-79, '83-85, '87-91, '98-1901. Note: Contains the Reports of the State Director of United New Jersey Railroad & Canal Co. Trenton, 1877-1902. 27 v., 9 x 6, pap.
- 11 NEW YORK—BOARD OF RAILROAD COMMISSIONERS. Annual report; 1900-01. Albany, 1901-02. 4 v., 9 x 6, cl.
- 76 —Explanations for the guidance of railroad companies in making reports in accordance with the new form adopted Mar., 1884. Albany, 1884. 34 pp., 9 x 6, b. p.
- In the matter of the complaint of J. E. A. Moore and others against the New York & Harlem R. R., as to rates of freight on milk. Note: Majority report. Albany, 1883. 64 pp., 9 x 6, b. p. no title-page. Ab-455, p. 381.
- 10 NEW YORK—STATE ENGINEER AND SURVEYOR. Annual report on the railroads of the State of New York; 1848, '56. Albany, 1850-57. 2 v. (with atlas), 9 x 6, cl.
- 68 NORTH CAROLINA—BOARD OF RAILROAD COMMISSIONERS. Annual report; 4th-5th; 1894-95. Note: Contains returns of railroad, steamboat, canal, telegraph and telephone companies. Raleigh, 1894-95. 2 v., 10 x 6, cl.
- 89 NORTH CAROLINA—CORPORATION COMMISSION. Annual report; 1899. Raleigh, 1899. 1 v., tab., 10 x 6, cl.
- 93 NORTH DAKOTA—COMMISSIONERS OF RAILROADS. Annual report to the Governor; 7th, 10th-11th; 1896, '99-1900. Bismarck, 1896-1900. 3 v. in 2, 9 x 6, pap.
- 4 OHIO—COMMISSIONER OF RAILROADS AND TELEGRAPHS. Annual report; 1898-1901. Columbus, 1898-1901. 4 v., map, 10 x 6, cl.
- 74 OREGON—BOARD OF RAILROAD COMMISSIONERS. Biennial report; 3d-5th; 1898-97. Salem, 1898-97. 3 v., 9 x 6, pap.
- 2 PENNSYLVANIA—SECRETARY OF INTERNAL AFFAIRS. Annual report for the year ending June 30th, 1886, Pts. 1-2; '90, Pt. 4; '91, Pt. 4; '93, Pt. 4; '94, Pt. 4; '95, Pt. 4; '96, Pt. 4; '97, Pt. 4; '98, Pt. 4; '99, Pt. 4; 1900, Pts. 4-5; '01, Pt. 4. Contents: Pt. 1, Land Office. Pt. 2, Assessments. Pt. 3, Industrial statistics. Pt. 4, Returns of railroad, canal, navigation, telegraph and telephone companies. Pt. 5, Report of the Bureau of Mines. Harrisburg, 1886-1901. 14 v., pl., 10 x 6, cl.
- 51 RHODE ISLAND—RAILROAD COMMISSIONER. Annual report; made to the General Assembly; 1886, '88, '90, '92, '94-1901. Note: Contain reports of street railroad companies. Providence, 1887-1902. 12 v., il., map, 9 x 6, pap., cl.
- 82 SOUTH CAROLINA—RAILROAD COMMISSIONERS. Annual report; 2d, Pt. 2, 5th, Pts. 1-2, 9th, 11th, 13th, 14th, Pt. 2, 17th-19th, 22d-23d; for the year ending June 30th, 1880, '83, '87, '89, '91-92, '95-97, 1900-01. Columbia, 1880-1902. 12 v., tab., 9 x 6, pap.
- 90 SOUTH DAKOTA—BOARD OF RAILROAD COMMISSIONERS. Annual report for the year ending June 30th, 1890-92, '98, 1901. Note: Report issued in 1898 is the report for the two years ending June 30th, 1898. Pierre, 1890-1901. 5 v. in 4, maps, tab., 9 x 6, cl., pap.
- 19 TEXAS—RAILROAD COMMISSION. Annual report; 1st, 5th, 9th-11th; 1892, '96, 1900-02. Austin, 1892-1902. 5 v., 9 x 3, pap.
- 46 VERMONT—BOARD OF RAILROAD COMMISSIONERS. Biennial report; 2d-3d, 5th; for the period ending June, 1890-92, '96. Rutland, 1890-96. 3 v., 9 x 6, cl.
- 96 VERMONT—RAILROAD COMMISSIONER. Biennial report; 1877-78. Rutland, 1878. 1 v., 9 x 6, pap.
- 55 VIRGINIA—RAILROAD COMMISSIONER. Annual report, 1st, 3d, 7th, 10th-11th, 14th, 17th, 19th; 1877, '79, '83, '86-87, '90, '93, '95. Richmond, 1877-95. 8 v., 9 x 6, pap., ½ sh.
- 17 WISCONSIN—RAILROAD COMMISSIONER. Annual report; 1st-2d, 8th-9th; 1874-75, '81-82. Madison, 1874-82. 4 v., 9 x 6, pap., cl.
- 71 —Biennial report; 3d-4th; June, 1888, '90. Madison, 1889-91. 2 v., tab, 9 x 6, pap.

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- 94 ARGENTINE REPUBLIC—DIRECCION DE VIAS DE COMUNICACION. Estadística de los ferrocarriles en explotación; 2d-9th; 1898-1900. Buenos Aires, 1896-1901. 8 v., 11 x 7, pap.
- 2 CANADA—DEPARTMENT OF RAILWAYS AND CANALS. Annual report for the fiscal year ending June 30th, 1900-01. Ottawa, 1901-02. 2 v., 10 x 6, pap.

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- 3 —Reports: Railway statistics of Canada, and capital, traffic and working expenditure of the railways of the Dominion; 1899-1900. Ottawa, 1899-1900. 2 v., maps, 10 x 6, pap.
- 70 CANADA—MINISTER OF RAILWAYS. Annual statement respecting the Canadian Pacific Ry.; 1884. Ottawa, 1884. 1 v., 9 x 6, pap.
- 73 CHILE—COMISION DE INGENIEROS PARA INSPECCIONAR LAS LINEAS de los ferrocarriles del estado. Informe presentado al Ministerio de Industria i Obras Publicas. Santiago, 1900. 73 pp., 9 x 6, pap.
- 85 GREAT BRITAIN—BOARD OF TRADE. Report of the Committee appointed by the Board to enquire into the loss of strength in steel rails through use in railways; together with the appendices thereto. Lond., 1900. 124 pp., il., 10 + 2 pl., tab., 14 x 8, pap.
- 90 GREAT BRITAIN—JOINT SELECT COMMITTEE ON RAILWAY COMPANIES Amalgamation. Report; together with the proceedings of the Committee, minutes of evidence, and appendix. Lond., 1872. 1 v. in 2, 13 x 9, ¾ ro.
- GREAT BRITAIN—RAILWAY COMMISSIONERS. Annual report with appendices; 1st-9th: 1874-82. Lond., 1874-82. 9 v., 13 x 9, b. p. Af-326, p. 29.
- 91 GREAT BRITAIN—SELECT COMMITTEE ON RAILWAYS (1839). Report; together with minutes of evidence, and appendix; 1st-2d. Lond., 1839. 2 v. in 1, pl., map, 13 x 9, ¾ mor.
- 93 GREAT BRITAIN—SELECT COMMITTEE ON RAILWAYS (1844). Report; 1st-6th. Lond., 1844. 6 v., 13 x 9, b. p.
- 98 GREAT BRITAIN—SELECT COMMITTEE ON RAILWAYS AND CANALS Amalgamation. Report; 1st-2d; 1846. Lond., 1846. 2 v., 13 x 9, b. p.
- 92 GREAT BRITAIN—SELECT COMMITTEE ON RAILWAYS (RATES AND FARES). Report; together with the proceedings of the Committee, minutes of evidence, and appendix. Lond., 1882. 88 + 545 pp., tab., 13 x 9, ¾ ro.
- 14 INDIA—PUBLIC WORKS DEPARTMENT—RAILWAYS. Administration report on the railways in India; 1899-1901. Simla, 1900-02. 4 v., 13 x 9, pap.
- 95 ITALY—MINISTERO DEI LAVORI PUBBLICI. Relazione sull' andamento dei servizi; July, 1898-Dec., '99. Roma, 1900. 1 v., tab., 12 x 9, pap.
- MEXICO—MINISTERIO DE FOMENTO. Memoria presentada al Congreso de la Union por el Secretario de Estado y del Despacho de Fomento, Colonizacion, Industria y Comercio de la Republica Mexicana; 1877. (See Na-119.)
- 88 NEW SOUTH WALES—COMMISSIONER FOR RAILWAYS. Railways of New South Wales: Report on their construction and working, from 1872 to 1875 inclusive. Sydney, 1876. 128 pp., maps, tab., 14 x 9, cl.
- 39 NEW SOUTH WALES—RAILWAY COMMISSIONERS. Annual report for the year ending June 30th, 1900-01. Sydney, 1900-01. 2 v., maps, 13 x 8, pap.
- 89 NICARAGUA—MINISTERIO DE FOMENTO. Memoria; 1885-86. Contents: Report on the proposed improvement of the San Juan River and Harbor; Proposed railway location of the Central Division of the National Ry.; Report on the proposed water-works to supply the District of Jinotepe; Study for a wagon road in Segovia; Report on proposed railway from San Jorge to San Juan del Sur. no place, no date. 1 v., 11 x 8, pap.
- 36 SOUTH AUSTRALIA—RAILWAY COMMISSIONERS. Annual report; 1892, '96, '98-1900. Adelaide, 1892-1900. 5 v., map, 13 x 9, pap.
- 7 UNITED STATES—COMMISSIONER OF RAILROADS. Annual report; made to the Secretary of the Interior, for the year ending June 30th, 1883, '85, '94, '96-97. Wash., 1883-97. 5 v., 9 x 6, pap.
- UNITED STATES—DEPARTMENT OF STATE. Report to the Secretary on the relations of the governments of the nations of Western Europe to the railways; by Simon Sterne. (49th Cong., 2d Sess. Senate misc. doc. No. 66.) no place, 1887. 45 pp., 9 x 6, b. p. Ah-76, p. 519.
- 87 UNITED STATES—HOUSE COMMITTEE ON INTERNAL IMPROVEMENTS. Report in relation to the comparative merits of canals and railroads. (22d Cong., 1st Sess. House doc. No. 101.) no place, 1832. 342 pp., 10 x 6, pap. no title-page.
- 71 UNITED STATES—HOUSE COMMITTEE ON PACIFIC RAILROADS. Report. (54th Cong., 1st Sess. House rep. No. 1497.) Wash., 1896. 13 pp., 9 x 6, pap. no title-page.
- 74 UNITED STATES—HOUSE COMMITTEE ON ROADS AND CANALS. Report of the Committee to whom was referred the memorial of Thomas Allen and others, praying for the location and construction of a national railroad and electric telegraph from the Mississippi River to the Pacific Ocean; also, various and numerous resolutions, memorials, and petitions in favor of the plan of Mr. Asa Whitney of New York, for the construction of such a road. (31st Cong., 1st Sess. House rep. No. 140.) no place, 1850. 117 pp., 10 x 6, pap. no title-page.
- 6 UNITED STATES—INTERSTATE COMMERCE COMMISSION. Annual report; 13th-15th; 1899-1901. Wash., 1900-02. 3 v., 9 x 6, cl.

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- 86 — Annual report on the statistics of railways in the United States: 1st-18th; for the year ending June 30th, 1888-1900. Wash., 1889-1901. 13 v., 9 x 6, cl.
- 59 — Preliminary report on the income account of railways in the United States, for the year ending June 30th, 1894-96. '98-1901. Wash., 1894-1902. 7 v., 9 x 6, pap.
- 69 **UNITED STATES—PACIFIC RAILWAY COMMISSION.** Report of the Commission, and of the Minority Commissioner, appointed under the Act of Congress approved Mar. 3d, 1887, entitled "An act authorizing an investigation of the books, accounts and methods of railroads which have received aid from the United States, and for other purposes." Wash., 1887. 217 pp., tab., 9 x 6, pap.
- UNITED STATES—QUARTERMASTER GENERAL.** Table of land grant railroads, 1876. Wash., 1876. 13 pp., 9 x 6, b. p. Af-305, p. 475.
- UNITED STATES—SENATE.** Report of the Select Committee on evidence affecting certain members of the Senate, Feb 27th, 1878. (42d Cong., 3d Sess. Senate rep. No. 519.) Note: Relates to the investigation of the alleged bribery in connection with the construction of the Union Pacific R. R. Wash., 1878. 9 + 162 pp., 9 x 6, b. p. no title-page. Af-303, p. 37.
- UNITED STATES—SPECIAL POSTAL COMMISSION.** Report on the subject of railway mail transportation, Dec. 14th, 1877. (45th Cong., 2d Sess. Senate misc doc. No. 14, Pt. 2.) Wash., 1878. 62 pp., tab., 9 x 6, b. p. Aa-82, p. 443.
- 75 **VICTORIA—COMMISSIONER OF RAILWAYS.** Railway construction, equipment and operation. Melbourne, 1871. 32 pp., 13 x 9, pap.
- 88 **WESTERN AUSTRALIA—GENERAL MANAGER OF RAILWAYS.** Report on the working of the Government railways and tramways for the year ended June 30th, 1897. Perth, 1897. 1 v., map, 13 x 8, pap.

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- 54 **ATLANTIC & GREAT WESTERN R. R.** Chapters on Erie, and Atlantic & Great Western. John Harold. no place, 1879. 112 pp., 9 x 6, pap.
- 11 **BALTIMORE & OHIO R. R.** Book of the great railway celebrations of 1857, embracing a full account of the opening of the Ohio & Mississippi, and the Marietta & Cincinnati Railroads, and the Northwestern Virginia Branch of the B. & O. R. R., with histories and descriptions of the same; and an account of the subsequent excursion to Baltimore, Washington and Norfolk, and the receptions and entertainments there of the state authorities of Ohio, and the municipal representatives of St. Louis, Cincinnati and Chillicothe. W. P. Smith. N. Y., 1858. 6 + 178 pp., il., map, 8 x 5, cl.
- 53 — Personal recollections, a lecture delivered before the Maryland Institute. J. H. B. Latrobe. Balt., 1866. 26 pp., 9 x 6, pap.
- Report of the Directors to the Legislature of Maryland. Note: Special report made in compliance with an order of the House of Delegates, showing progress made on the railroad, and giving an account of the controversy with the Chesapeake & Ohio Canal Co. 1831. (See Ag-540.)
- 2 **BELGIUM.** Historical, statistical, and scientific account of the railways of Belgium from 1834 to 1842. Edward Dobson, comp. and tr. Lond., 1843. 16 + 101 pp., 3 pl., tab., 10 x 7, cl.
- BOSTON, HARTFORD & ERIE R. R.** Opening statement on behalf of the petitioners. T. E. Graves. Note: Petition to the Legislature of Massachusetts asking for financial aid. 1870. (See Ae-17.)
- CENTRAL PACIFIC R. R.** In equitable account with the United States, growing out of the issue of subsidy bonds in aid of construction; A review of the testimony and exhibits presented before the Pacific Ry. Commission, appointed according to the Act of Congress, approved Mar. 3d, 1887. Roscoe Conkling and W. D. Shipman. 1887. (See Ae-90.)
- 55 — Relations between the C. P. R. R. Co. and the United States Government: Summary of facts, 1889. G. L. Lansing. San Fran., 1889. 70 pp., 9 x 6, pap.
- Romantic realities; the story of the building of the Pacific roads as told by the engineer whose genius found a pathway over the mountains: A paper on the trans-continental railways read before the Society of the Army of the Tennessee at its twenty-first annual re-union at Toledo, Ohio, Sept 15th, 1888. G. M. Dodge. Omaha, 1889. 23 pp., 9 x 6, b. p. Aa-81, p. 721.
- Views of the Minority. U. S.-Senate Committee on Pacific Railroads. 1896. (See Af-435.)
- 45 **CINCINNATI SOUTHERN RY.** A study in municipal activity. J. H. Hollander. (Johns Hopkins University Studies in Historical and Political Science. Ser. 12.) Balt., 1894. 116 pp., tab., 9 x 6, mor.
- ERIE RY.** Analysis of the Erie Reorganization Bill, with a statement, based upon official documents and figures, prepared for and at the request of holders of E. Ry. shares, and submitted for the consideration of the Legislature. John Livingston. 1876. (See Af-411.)

A]—(Continued).

- 54 — Chapters on Erie, and Atlantic & Great Western. John Harold. no place, 1879. 112 pp., 9 x 6, pap.
- 58 **FERROCARRIL DE ANTIOQUIA.** Sobre el Ferrocarril de Antioquia; capítulos del libro inédito, Vías de comunicación con la costa Atlántica. Ernesto Ferro y Zea. Medellín, 1902. 10 + 79 pp., 10 x 7, pap.
- 5 **FERROCARRIL DE AREQUIPA.** Historia documentada de su origen, construcción é inauguración. Lima, 1871. 89 + 459 + 14 pp., 11 x 8, ¾ ro.
- GENERAL.**
- UNITED STATES—HOUSE COMMITTEE ON INTERNAL IMPROVEMENTS.** Report in relation to the comparative merits of canals and railroads. 1882. (See A1-37.)
- GREAT BRITAIN.** English railway system. L. J. Seargeant. Chic., 1885. 9 pp. 9 x 6, b p. Ae-400, p. 51.
- 18 — History of the English railway; its social relations and revelations, 1820-1845. John Francis. Lond., 1851. 2 v., 9 x 6, ¾ cl.
- 29 — Jubilee memorial of the railway system: A history of the Stockton & Darlington Ry. and a record of its results. J. S. Jeans. Lond., 1875. 17 + 315 pp., il., por., tab., 9 x 6, cl.
- Lives of the engineers, with an account of their principal works; comprising also a history of inland communication in Britain. Samuel Smiles. 1861-62. (See Zb-81.)
- Our railways: Sketches historical and descriptive, with practical information as to fares and rates, etc., and a chapter on railway reform. Joseph Parloe. 1878. (See Ae-21.)
- Railways of England. W. M. Acworth. Contents: North Western; Midland; Great Northern; Manchester, Sheffield & Lincoln; North Eastern; South Western; Great Western; Great Eastern; Brighton & South Coast; Chatham & Dover; South Eastern. 1889. (See Ae-272.)
- 11 **MARIETTA & CINCINNATI R. R.** Book of the great railway celebrations of 1857, embracing a full account of the opening of the Ohio & Mississippi, and the M. & C. Railroads, and the Northwestern Virginia Branch of the Baltimore & Ohio R. R., with histories and descriptions of the same; and an account of the subsequent excursion to Baltimore, Washington and Norfolk, and the receptions and entertainments there of the state authorities of Ohio, and the municipal representatives of St. Louis, Cincinnati and Chillicothe. W. P. Smith. N. Y., 1858. 6 + 178 pp., il., map, 8 x 5, cl.
- 56 **MOHAWK & HUDSON R. R.** Origin and progress of the M. & H. R. R., first operated July, 1831; read before the Albany Institute, April 20, 1875. Joel Munsell. no place, 1875. 18 pp., il., 9 x 6, pap.
- 66 **NORTHERN PACIFIC R. R.** History of the N. P. R. R. E. V. Smalley. N. Y., 1883. 22 + 437 pp., maps, 10 x 7, mor.
- 11 **OHIO & MISSISSIPPI R. R.** Book of the great railway celebrations of 1857, embracing a full account of the opening of the O. & M., and the Marietta & Cincinnati Railroads, and the Northwestern Virginia Branch of the Baltimore & Ohio R. R., with histories and descriptions of the same; and an account of the subsequent excursion to Baltimore, Washington and Norfolk, and the receptions and entertainments there of the state authorities of Ohio, and the municipal representatives of St. Louis, Cincinnati and Chillicothe. W. P. Smith. N. Y., 1858. 6 + 178 pp., il., map, 8 x 5, cl.
- PHILADELPHIA & READING R. R.** Memoir of Charles E. Smith, President of the P. & R. R. R., and iron master, 1820 to 1900. E. A. Scott. 1902. (See Zb-84.)
- PITTSBURGH, FORT WAYNE & CHICAGO RY.** Corporate history of the P., F. W. & C. Ry. Co., together with the mortgages, leases, deeds and agreements of that corporation, assumed by the Pennsylvania Co. and in force Aug. 1st, 1875. (See Af-439.)
- SCOTLAND.** Railways of Scotland; their present condition, with a glance at their past and a forecast of their future. W. M. Acworth. 1890. (See Ae-328.)
- 60 **SIBERIAN RY.** Great S. Ry.; edited by the Chancery of the Committee of Ministers. (Universal Exhibition of 1900 in Paris.) St. Petersburg, 1900. 16 pp., por., maps, 10 x 7, pap.
- 29 **STOCKTON & DARLINGTON RY.** Jubilee memorial of the railway system: A history of the S. & D. Ry. and a record of its results. J. S. Jeans. Lond., 1875. 17 + 315 pp., il., por., tab., 9 x 6, cl.
- TEZPUR-BALIPARA TRAMWAY.** J. W. de Tivoli. 1901. (See Aa-110, No. 70.)
- 52 **UNION PACIFIC R. R.** Credit Mobilier. no place, 1874. pp. 546-557, 9 x 6, b. p.
- Defense against the charge of selling to members of Congress shares of the capital stock of the Credit Mobilier of America, with intent to bribe said members of Congress; read in the House of Representatives, Feb. 25th, 1873. Oakes Ames. no place, 1873. 20 pp., 9 x 6, b. p. Zj-191, p. 329.

A_J—(Continued).

- 57 —Pacific railroad legislation, 1862-1885. Bost., 1885. 75 pp., 9 x 6, pap.
- Romantic realities; the story of the building of the Pacific roads as told by the engineer whose genius found a pathway over the mountains: A paper on the trans-continental railways read before the Society of the Army of the Tennessee at its twenty-first annual re-union at Toledo, Ohio, Sept. 15th, 1888. G. M. Dodge. Omaha, 1889. 23 pp., 9 x 6, b. p. Aa-81, p. 721.
- Views of the Minority. U. S.-Senate Committee on Pacific Railroads. 1896. (See Af-435.)
- UNITED STATES. American railroads as investments: A handbook for investors in American railroad securities. S. F. Van Oss. 1898. (See Ae-325.)
- 11 —Book of the great railway celebrations of 1857, embracing a full account of the opening of the Ohio & Mississippi, and the Marietta & Cincinnati Railroads and the Northwestern Virginia Branch of the Baltimore & Ohio R. R., with histories and descriptions of the same; and an account of the subsequent excursion to Baltimore, Washington and Norfolk, and the receptions and entertainments there of the state authorities of Ohio, and the municipal representatives of St. Louis, Cincinnati and Chillicothe. W. P. Smith. N. Y., 1893. 6 + 178 pp., il., map, 8 x 5, cl.
- Congressional grants of land in aid of railways. J. B. Sanborn. (Bulletin of the University of Wisconsin, Economics Ser.) 1899. (See Ab-282.)
- Notes on railroad accidents. C. F. Adams, Jr. 1879. (See Ae-6.)
- 59 —Past, present and future of American railways. M. E. Ingalls. no place, no date. 24 pp., 8 x 5, pap.
- 6 —Railroads of the United States; their history and statistics, comprising the progress and present condition of the various lines with their earnings and expenses, and showing their wonderful power in developing the resources of the country; to which are added a synopsis of the railroad laws of the United States, and an article on the comparative merits of iron and steel rails. H. M. Flint. Phil., 1868. 452 pp., 8 x 5, cl.
- Recollections of a civil engineer: Experiences in New York, Iowa, Nebraska, Dakota, Illinois, Missouri, Minnesota and Colorado. D. H. Ainsworth. 1901. (See Zb-88.)
- 65 —Reminiscences, giving hitherto unpublished official orders, personal narratives of important military operations, and interviews with President Lincoln, Secretary Stanton, and others in command of the armies in the field, and his impressions of these men written by himself; with notes and a personal sketch by Frank Abiel Flower. Herman Haupt. Milwaukee, 1901. 10 + 331 pp., por., pl., 10 x 7, cl.

RAILROADS, STREET.

RAILROADS, STREET—GENERAL.

Ba

- 13 **DAWSON, PHILIP.** "Engineering" and electric traction pocket-book. ed. 2, rev. and enl. Lond., 1901. 46 + 1805 pp., il., 7 x 4, ro.
 - 14 **DUNCAN'S MANUAL OF TRAMWAYS, OMNIBUSES & ELECTRIC RAILWAYS** of the United Kingdom and the foreign and colonial companies that are registered in England, showing the dates of incorporation, and where fixed and ascertainable, the dates at which their leases or concessions terminate, with abstracts of accounts, directory of directors, officials, firms and individuals connected therewith, and extract of Tramways Act and bye-laws—Board of Trade and Metropolitan; 1902. Lond., 1902. 1 v., 7 x 5, cl.
 - 12 **HERRICK, A. B.** Practical electric railway handbook. N. Y., 1901. 6 + 407 pp., il., tab., 7 x 5, mor.
 - 4 **NYSSENS-HART, JULIEN.** Les communications interurbaines à grande vitesse. Bruxelles, 1902. 22 pp., il., 9 x 6, pap.
- STREET-RAILWAY ASSOCIATION OF THE STATE OF NEW YORK.** Report of the annual meeting; 1883, '85-96. (See Sa3-180.2.)

RAILROADS, STREET—LOCATION.

Bb

- 51 **BOSTON, MASS.** Boston subways; remarks before the Committee on Metropolitan Affairs, State House, 4th March, 1901; by Thomas N. Hart, Mayor of Boston. Bost., 1901. 11 pp., 9 x 6, pap.,
—Charters and locations of the several street railways in the City of Boston. City Clerk. 1869-79. (See Bf-35.)
 - 62 **BROADWAY & YONKERS PATENT RY.** Exposé of the facts concerning the proposed elevated patent railway enterprise in the City of New York, 1866. N. Y., 1866. 71 pp., il., pl., tab., 9 x 6, pap.
 - BROADWAY R. R. (NEW YORK).** Majority and Minority reports of the Special Committee relative to constructing a railroad in Broadway. New York City-Board of Aldermen. 1852. (See Bf-44.)
 - 47 —Speech before the Senate Committee, against the Broadway R. R., March 11th, 1863. A. T. Stewart. no place, no date. 4 pp., 9 x 6, pap. no title-page.
 - 59 **BROADWAY UNDERGROUND RY. (NEW YORK).** London underground railway: Proceedings at the banquet at the Mansion House Station, July 1st, 1871, the Earl of Devon in the chair; speeches of W. E. Gladstone and others. Note: Includes newspaper extracts on the B. U. Ry. celebration in 1870. N. Y., 1872. 37 pp., 9 x 6, pap.
 - BROOKLYN, N. Y.** Report of the Committee on Construction of the Board of Rapid Transit Commissioners, to whom was referred the duty of selecting a suitable plan of elevated steam railway for the City of Brooklyn, June 27th, 1878. (See Bh-6.)
 - BUFFALO TRACTION CO.** Testimony before the Board in the matter of the application of the B. T. Co. for a certificate under Section 59 of the railroad law. New York State-Board of Railroad Commissioners. Note: Relates to the location of the road in the City of Buffalo. 1896. (See Bf-53.)
- GENERAL.**
- 36 **ANDREWS, H. B.** Handbook for street railway engineers, containing geometrical and trigonometrical formulæ, transition curve tables, track construction tables, strength of wooden beams and columns, electrical formulæ and tables, and much other information invaluable in street railway design and maintenance. N. Y., 1902. 202 pp., pl., 5 x 3, ro.
 - PRATT, M. D., and C. A. ALDEN.** Street-railway roadbed. 1896. (See Bd-14.)
 - GILBERT ELEVATED RY. (NEW YORK).** Argument: A defense of the rights of the public and the property owners to the free and unobstructed use of the streets in the City of New York. J. H. Choate. Note: Application for injunction to prevent G. E. Ry. Co. from encroaching on private property along line of construction. 1877. (See Bc-53.)

Bb—(Continued).

- 57 **GREAT METROPOLITAN RY. OF NEW YORK.** Prospectus. N. Y., 1877. 30 pp., pl., 9 x 6, pap.
- 456 **INDIANAPOLIS CABLE STREET R. R.** Articles of association, ordinances, bonds and mortgages, prospectus, etc., of the company. Indianapolis, 1887. 34 pp., 9 x 6, b. p. no title-page.
- 66 **INTER-METROPOLITAN RY. (NEW YORK).** Plans illustrative of proposed construction of the I.-M. Ry., New York. no place, no date. 4 pl., various sizes, pap.
- LONDON, ENGLAND.** Report from the Joint Select Committee of the House of Lords and the House of Commons on London underground railways. 1901. (See Bj-2.)
- 58 **MANHATTAN RY.** Copy of a letter of the President of the M. Ry. Co. to Hugh J. Grant, Mayor of the City of New York. Jay Gould. Note: Letter asking that additional terminal facilities be granted to the company. no place, 1889. 8 pp., 9 x 6, pap.
- 59 **METROPOLITAN DISTRICT RY. (LONDON).** London underground railway: Proceedings at the banquet at the Mansion House Station, July 1st, 1871, the Earl of Devon in the chair; speeches of W. E. Gladstone and others. N. Y., 1872. 37 pp., 9 x 6, pap.
- 68 **NEW YORK CABLE RY.** Map of the cable railway system. no place, no date. sheet, 50 x 11, pap.
- NEW YORK CITY.** Argument: A defense of the rights of the public and the property owners to the free and unobstructed use of the streets in the City of New York. J. H. Choate. Note: Application for injunction to prevent Gilbert Elevated Ry. Co. from encroaching on private property along line of construction. 1877. (See Bc-58.)
- 58 — **Rapid railway conveyance in the City of New York.** O. Vandenburg. N. Y., 1866. 87 pp., 9 x 6, pap.
- 67 — **Rapid transit for New York: The Broadway route: The Reno plan.** J. W. Reno. N. Y., no date. 6 + 2 pp., il., 9 x 13, pap.
- 9 — **Underground rapid transit for New York.** N. Y., 1891. 14 pp., maps, 12 x 9, pap.
- 61 — **Viaduct railway for the City of New York.** J. J. Serrell and Leopold Eidlitz. N. Y., 1870. 16 pp., 9 x 6, pap.
- NEW YORK UNDERGROUND RY.** History of underground railroad charters and their legal status. Jan., 1886. H. D. Sedgwick and N. J. Waterbury. Note: Has special reference to the rights and advantages of the N. Y. U. Ry. Co. no place, 1886. 12 pp., 9 x 6, b. p. Aa-88, p. 377.

RAILROADS, STREET—CONSTRUCTION.

Bc

- BARMEN, ELBERFELD, VOHWINKEL R. R.** Chemin de fer suspendus à rail unique. Continentale Gesellschaft für elektrische Unternehmungen. 1900. (See Bd-49.)
- 37a **BROADWAY UNDERGROUND RY. (NEW YORK.)** Illustrated description of the B. U. Ry.; with a full description of the atmospheric machinery and the great tunneling machine. N. Y., 1872. 24 pp., il., 9 x 6, pap.
- BROOKLYN, N. Y.** Contract No. 2, being for construction and operation of Brooklyn-Manhattan Rapid Transit R. R. New York City-Board of Rapid Transit Railroad Commissioners. 1902. (See Bc-63, v. 4 and 5.)
- CHEMIN DE FER METROPOLITAIN DE PARIS:** Description du réseau projeté, lignes actuellement exécutées, usine de Bercy, exploitation des lignes actuellement en construction. A. Dumas. 1901. (See Bc-48.)
- DUTCH EAST INDIA.** Les chemins de fer aux colonies et dans les pays neufs. Fascicule concernant les chemins de fer et les tramways à vapeur aux Indes Orientales Néerlandaises. J. W. Post. 1900. (See Ac-6.)
- EIGHTH AVENUE R. R. (NEW YORK).** Agreements between the Mayor, Aldermen and Commonalty of the City of New York, and the Harlem, Hudson River, Sixth, Eighth, Second and Third Avenue R. R. Companies, relative to laying rails through the streets and avenues of the City. 1854. (See Bf-43.)
- GENERAL.**
- ANDREWS, H. B.** Handbook for street railway engineers, containing geometrical and trigonometrical formulae, transition curve tables, track construction tables, strength of wooden beams and columns, electrical formulae and tables, and much other information invaluable in street railway design and maintenance. 1902. (See Bb-36.)
- CONTINENTALE GESELLSCHAFT FÜR ELEKTRISCHE UNTERNEHMUNGEN.** Chemin de fer suspendus à rail unique. 1900. (See Bd-49.)
- HERRICK, A. B.** Practical electric railway handbook. 1901. (See Ba-12.)

Bc—(Continued).**GENERAL—(Continued).**

- PRATT, M. D., and C. A. ALDEN.** Specifications for street-railway track. 1898. (See Bd-14, p. 127.)
- TILLSON, G. W.** Construction of street-car tracks in paved streets and roadways. 1900. (See Na-120, p. 421.)
- 58 **GILBERT ELEVATED RY. (NEW YORK).** Argument: A defense of the rights of the public and the property owners to the free and unobstructed use of the streets in the City of New York. J. H. Choate. Note: Application for injunction to prevent G. E. Ry. Co. from encroaching on private property along line of construction. N. Y., 1877. 63 pp., 9 x 6, pap.
- 60 **METROPOLITAN DISTRICT RY. (LONDON).** Ventilation of the Metropolitan Ry. tunnels: Memorandum submitted to the Committee appointed by the Board of Trade; together with a verbatim reprint of the examination of the author of the memorandum before the Committee, as given in their official report to the President of the Board of Trade, dated 3d Aug., 1897. Ernest Callard. Lond., 1898. 36 pp., 7 x 5, pap.
- 59 **METROPOLITAN RY. (LONDON).** King's Cross and Farringdon Street widening, with Great Northern and Midland junctions; tender for construction: Terms & conditions upon which tender is to be made. Lond., 1865. 5 pp., 13 x 8, pap.
- 60 — Ventilation of the M. Ry. tunnels: Memorandum submitted to the Committee appointed by the Board of Trade; together with a verbatim reprint of the examination of the author of the memorandum, before the Committee, as given in their official report to the President of the Board of Trade, dated 3d Aug., 1897. Ernest Callard. Lond., 1898. 36 pp., 7 x 5, pap.
- NEW YORK CITY.** Agreements between the Mayor, Aldermen and Commonalty of the City of New York, and the Harlem, Hudson River, Sixth, Eighth, Second and Third Avenue R. R. Companies, relative to laying rails through the streets and avenues of the City. 1854. (See Bf-43.)
- 58 — Argument: A defense of the rights of the public and the property owners to the free and unobstructed use of the streets in the City of New York. J. H. Choate. Note: Application for injunction to prevent Gilbert Elevated Ry. Co. from encroaching on private property along line of construction. N. Y., 1877. 63 pp., 9 x 6, pap.
- 63 — Contracts for construction and operation of Rapid Transit R. R. Board of Rapid Transit Railroad Commissioners. Contents: No. 1, New York City Rapid Transit R. R. No. 2, Brooklyn-Manhattan Rapid Transit R. R. no place, 1899-1902. 5 v., 10 x 8 (atlases 17 x 26), pap.
- Report of the Board of Rapid Transit Railroad Commissioners, accompanied by reports of the Chief Engineer and of the Auditor; Mar., 1900-Dec., '01. (See Bh-19.)
- Second preliminary draft of contract for construction and operation of rapid transit railroad. Board of Rapid Transit Railroad Commissioners. 1897. (See Bf-60.)
- PARIS, FRANCE.** Amélioration des transports en commun à Paris. Marcel Delmas. 1901. (See Be-20.)
- SECOND AVENUE R. R. (NEW YORK).** Agreements between the Mayor, Aldermen and Commonalty of the City of New York, and the Harlem, Hudson River, Sixth, Eighth, Second and Third Avenue R. R. Companies, relative to laying rails through the streets and avenues of the City. 1854. (See Bf-43.)
- SIXTH AVENUE R. R. (NEW YORK).** Agreements between the Mayor, Aldermen and Commonalty of the City of New York, and the Harlem, Hudson River, Sixth, Eighth, Second and Third Avenue R. R. Companies, relative to laying rails through the streets and avenues of the City. 1854. (See Bf-43.)
- THIRD AVENUE R. R. (NEW YORK).** Agreements between the Mayor, Aldermen and Commonalty of the City of New York, and the Harlem, Hudson River, Sixth, Eighth, Second and Third Avenue R. R. Companies, relative to laying rails through the streets and avenues of the City. 1854. (See Bf-43.)
- YONKERS RAPID TRANSIT RY.** Minutes of the meetings of the Commissioners in relation to the construction of the Y. R. T. Ry., Mar. 18th-June 11th, 1880. Yonkers, N. Y.—Board of Commissioners of Rapid Transit. no place, 1880. 45 pp., 9 x 6, b. p. no title-page. Af-303, p. 299.

RAILROADS, STREET—EQUIPMENT.**Bd**

- 49 **BARMEN, ELBERFELD, VOHWINKEL R. R.** Chemin de fer suspendus à rail unique. Continentale Gesellschaft für elektrische Unternehmungen. Nürnberg, 1900. 75 pp., il., pl., 10 x 15, ¼ cl.
- CHEMIN DE FER METROPOLITAIN DE PARIS.** Description du réseau projeté, lignes actuellement exécutées, usine de Bercy, exploitation des lignes actuellement en construction. A. Dumas. 1901. (See Be-48.)

Bd—(Continued).

EIGHTH AVENUE R. R. (NEW YORK). Agreements between the Mayor, Aldermen and Commonalty of the City of New York, and the Harlem, Hudson River, Sixth, Eighth, Second and Third Avenue R. R. Companies, relative to laying rails through the streets and avenues of the City. 1854. (See Bf-48.)

GENERAL.

- 45 **AUCAMUS, EUGENE, and L. GALINE.** Tramways et automobiles. (Bibliothèque du Conducteur de Travaux Publics.) Paris, 1900. 10 + 481 pp., il., 7 x 5, ro.
- BARABANT.** English tramways: Translation of report of M. Barabant, Chief Engineer of Public Ways, Paris, 1884. Note: Results produced on various kinds of pavements by presence of rails, both as regards first cost and maintenance. 1885. (See Na-115, p. 29.)
- 49 **CONTINENTALE GESELLSCHAFT FÜR ELEKTRISCHE UNTERNEHMUNGEN.** Chemin de fer suspendus à rail unique. Nürnberg, 1900. 75 pp., il., pl., 10 x 15, ½ cl.
- DACREMONT, EDOUARD.** Traction électrique. (Bibliothèque du Conducteur de Travaux Publics.) 1899. (See Ha-64, v. 2, p. 210.)
- DAWSON, PHILIP.** "Engineering" and electric traction pocket-book. 1901. (See Ba-13.)
- 47 **DUMONT, G.** Automobiles sur rails. (Encyclopédie Scientifique des Aide-Memoire.) Paris, 1897 (?) 6 + 184 pp., il., 8 x 5, pap.
- HAUPT, HERMAN, and J. L. MEIGS.** Reports on the Meigs elevated railroad and description of the same by the inventor. Bost., 1881. 48 pp., 9 x 6, b. p. Af-304, p. 153.
- HERRICK, A. B.** Practical electric railway handbook. 1901. (See Ba-12.)
- HISCOX, G. D.** Compressed air in railway service. 1901. (See Ge-22, p. 571.)
- 46 **MARTIN, HENRY.** Production et distribution d'énergie pour la traction électrique. Paris, 1902. 760 pp., il., 10 x 7, cl.
- 48 **NATIONAL CABLE RY. CO.** System of traction railways for cities and towns. N. Y., 1883. 52 pp., il., pl., 11 x 8, pap.
- NEW YORK STATE—BOARD OF RAILROAD COMMISSIONERS.** Report of competitive tests of street car brakes held by the Board, 1899. 1900. (See Bi-3.)
- 14 **PRATT, M. D., and C. A. ALDEN.** Street-railway roadbed. N. Y., 1898. 5 + 135 pp., il., 3 tab., 9 x 6, cl.
- SOPER, G. A.** Sanitary condition of street-cars in New York. 1902. (See Eg-73.)
- 36 **TRACTION RY. CO.** System of wire rope street railways. San Fran., 1880. 9 pp., il., 5 pl., 10 x 7, pap.
- 35 **GREAT BRITAIN.** English methods of street railway track construction. James More and Alex. McCallum. N. Y., 1894. 26 pp., il., 9 x 6, pap.
- English tramways: Translation of report of M. Barabant, Chief Engineer of Public Ways, Paris, 1884. Note: Results produced on various kinds of pavements by presence of rails, both as regards first cost and maintenance. 1885. (See Na-115, p. 29.)
- METROPOLITAN DISTRICT RY. (LONDON).** Ventilation of the Metropolitan Ry. tunnels: Memorandum submitted to the Committee appointed by the Board of Trade; together with a verbatim reprint of the examination of the author of the memorandum, before the Committee, as given in their official report to the President of the Board of Trade, dated 3d Aug., 1897. Ernest Callard. 1898. (See Bc-60.)
- METROPOLITAN RY. (LONDON).** Ventilation of the M. Ry. tunnels: Memorandum submitted to the Committee appointed by the Board of Trade; together with a verbatim reprint of the examination of the author of the memorandum, before the Committee, as given in their official report to the President of the Board of Trade, dated 3d Aug., 1897. Ernest Callard. 1898. (See Bc-60.)
- NEW YORK & BROOKLYN BRIDGE.** Report of the Board of Expert Engineers on the Manhattan Terminal of the N. Y. & B. Bridge. New York City—Commissioner of Bridges. 1901. (See Fg-90.)
- NEW YORK CITY.** Agreements between the Mayor, Aldermen and Commonalty of the City of New York, and the Harlem, Hudson River, Sixth, Eighth, Second and Third Avenue R. R. Companies, relative to laying rails through the streets and avenues of the City. 1854. (See Bf-48.)
- Sanitary condition of street-cars in New York. G. A. Soper. 1902. (See Eg-73.)
- 34 **SANTIAGO, CHILE.** La impressa de traccion i alumbrado electricos de Santiago. O. D. Izquierdo. Santiago, 1901. 108 pp., 10 x 7, pap.
- SECOND AVENUE R. R. (NEW YORK.)** Agreements between the Mayor, Aldermen and Commonalty of the City of New York, and the Harlem, Hudson River, Sixth, Eighth, Second and Third Avenue R. R. Companies, relative to laying rails through the streets and avenues of the City. 1854. (See Bf-48.)

Bd—(Continued).

SIXTH AVENUE R. R. (NEW YORK). Agreements between the Mayor, Aldermen and Commonalty of the City of New York, and the Harlem, Hudson River, Sixth, Eighth, Second and Third Avenue R. R. Companies, relative to laying rails through the streets and avenues of the City. 1864. (See Bf-48.)

THIRD AVENUE R. R. (NEW YORK). Agreements between the Mayor, Aldermen and Commonalty of the City of New York, and the Harlem, Hudson River, Sixth, Eighth, Second and Third Avenue R. R. Companies, relative to laying rails through the streets and avenues of the City. 1864. (See Bf-48.)

RAILROADS, STREET—OPERATION.**Be**

BROOKLYN, N. Y. Contract No. 2, being for construction and operation of Brooklyn-Manhattan Rapid Transit R. R. New York City-Board of Rapid Transit Railroad Commissioners. 1902. (See Bc-63, v. 4 and 5.)

CENTRAL LONDON RY. Report of the Committee appointed by the Board of Trade to enquire into the vibration caused by the working of the traffic on the C. L. Ry. 1902. (See Bj-1.)

- 48 **CHEMIN DE FER METROPOLITAIN DE PARIS.** Description du réseau projeté, lignes actuellement exécutées, usine de Bercy, exploitation des lignes actuellement en construction. A. Dumas. Paris, 1901. 183 pp., il., pl., maps, 10 x 6, ¼ mor.

DUTCH EAST INDIA. Les chemins de fer aux colonies et dans les pays neufs: Fascicule concernant les chemins de fer et les tramways à vapeur aux Indes Orientales Néerlandaises. J. W. Post. 1900. (See Ac-6.)

GENERAL.

DAWSON, PHILIP. Efficiency, maintenance and depreciation of street railways. 1901. (See Ba-13, p. 1153.)

HAUPT, HERMAN, and J. L. MEIGS. Reports on the Meigs elevated railroad and description of the same by the inventor. Bost., 1881. 48 pp., 9 x 6, b. p. Af-304, p. 153.

HERRICK, A. B. Operation of street railways. 1901. (See Ba-12, p. 372.)

GLASGOW, SCOTLAND. Annual report of the Tramways Committee; 1899. (See Bh-20.)

- 41 — Glasgow's municipal tramways; public and private management compared. M. R. Maltbie. no place, 1900. pp. 40-59, 9 x 6, pap.

INDIANAPOLIS CABLE STREET R. R. Articles of association, ordinances, bonds and mortgages, prospectus, etc., of the company. Indianapolis, 1887. 34 pp., 9 x 6, b. p. no title-page. Ab-456, p. 215.

MANHATTAN RY. (NEW YORK). By-laws and business organization, adopted Jan., 1880, amended Dec. 14th, 1880. no place, 1880. 13 pp., 9 x 6, b. p. Ae-283, p. 77.

— Copy of a letter of the President of the M. Ry. Co. to Hugh J. Grant, Mayor of the City of New York. Jay Gould. Note: Letter asking that additional terminal facilities be granted to the company. 1889. (See Bb-58.)

MASSACHUSETTS. Development of street railways in the Commonwealth of Massachusetts. W. S. Allen. no date. (See Bj-2.)

METROPOLITAN DISTRICT RY. (LONDON). Report of the Committee appointed to inquire into the system of ventilation of tunnels on the Metropolitan Ry.; together with the proceedings of the Committee, minutes of evidence, appendix and index. Great Britain-Board of Trade. 1897. (See Bj-11.)

- 42 **METROPOLITAN R. R. (BOSTON).** Circular relative to increase of rates upon the road. Bost., 1885. 16 pp., 9 x 6, pap. no title-page.

METROPOLITAN RY. (LONDON). Report of the Committee appointed to inquire into the system of ventilation of tunnels on the M. Ry., together with the proceedings of the Committee, minutes of evidence, appendix and index. Great Britain-Board of Trade. 1897. (See Bj-11.)

NEW YORK CITY. Contracts for construction and operation of Rapid Transit R. R. Board of Rapid Transit Railroad Commissioners. Contents: No. 1, New York City Rapid Transit R. R. No. 2, Brooklyn-Manhattan Rapid Transit R. R. 1899-1902. (See Bc-63.)

— Facts in regard to the elevated railway litigation, including Judge Van Brunt's findings. 1884. (See Bf-45.)

— In the matter of the investigation of the elevated railroads of New York City. New York State-Board of Railroad Commissioners. Note: Majority report. Albany, 1883. 31 pp., 9 x 6, b. p. no title-page. Ab-455, p. 349.

— Minority report in the matter of the investigation of the elevated railroads of New York City. New York State-Board of Railroad Commissioners. Albany, 1883. 28 pp., 9 x 6, b. p. no title-page. Ab-455, p. 321.

Bd—(Continued).

EIGHTH AVENUE R. R. (NEW YORK). Agreements between the Mayor, Aldermen and Commonalty of the City of New York, and the Harlem, Hudson River, Sixth, Eighth, Second and Third Avenue R. R. Companies, relative to laying rails through the streets and avenues of the City. 1854. (See Bf-43.)

GENERAL.

- 45 **AUCAMUS, EUGENE, and L. GALINE.** Tramways et automobiles. (Bibliothèque du Conducteur de Travaux Publics.) Paris, 1900. 10 + 481 pp., il., 7 x 5, ro.
BARABANT. English tramways: Translation of report of M. Barabant, Chief Engineer of Public Ways, Paris, 1884. Note: Results produced on various kinds of pavements by presence of rails, both as regards first cost and maintenance. 1885. (See Na-115, p. 29.)
- 49 **CONTINENTALE GESELLSCHAFT FÜR ELEKTRISCHE UNTERNEHMUNGEN.** Chemin de fer suspendus à rail unique. Nürnberg, 1900. 75 pp., il., pl., 10 x 15, ¼ cl.
DACREMONT, EDOUARD. Traction électrique. (Bibliothèque du Conducteur de Travaux Publics.) 1899. (See Ha-64, v. 2, p. 210.)
DAWSON, PHILIP. "Engineering" and electric traction pocket-book. 1901. (See Ba-13.)
- 47 **DUMONT, G.** Automobiles sur rails. (Encyclopédie Scientifique des Aide-Memoire.) Paris, 1897 (?) 6 + 184 pp., il., 8 x 5, pap.
HAUPT, HERMAN, and J. L. MEIGS. Reports on the Meigs elevated railroad and description of the same by the inventor. Bost., 1881. 48 pp., 9 x 6, b. p. Af-304, p. 153.
HERRICK, A. B. Practical electric railway handbook. 1901. (See Ba-12.)
HISCOX, G. D. Compressed air in railway service. 1901. (See Ge-22, p. 571.)
- 46 **MARTIN, HENRY.** Production et distribution d'énergie pour la traction électrique. Paris, 1902. 760 pp., il., 10 x 7, cl.
- 48 **NATIONAL CABLE RY. CO.** System of traction railways for cities and towns. N. Y., 1883. 52 pp., il., pl., 11 x 8, pap.
NEW YORK STATE—BOARD OF RAILROAD COMMISSIONERS. Report of competitive tests of street car brakes held by the Board, 1899. 1900. (See Bi-3.)
- 14 **PRATT, M. D., and C. A. ALDEN.** Street-railway roadbed. N. Y., 1898. 5 + 185 pp., il., 3 tab., 9 x 6, cl.
SOPER, G. A. Sanitary condition of street-cars in New York. 1902. (See Eg-73.)
- 36 **TRACTION RY. CO.** System of wire rope street railways. San Fran., 1880. 9 pp., il., 5 pl., 10 x 7, pap.
- 35 **GREAT BRITAIN.** English methods of street railway track construction. James More and Alex. McCallum. N. Y., 1894. 26 pp., il., 9 x 6, pap.
 —English tramways: Translation of report of M. Barabant, Chief Engineer of Public Ways, Paris, 1884. Note: Results produced on various kinds of pavements by presence of rails, both as regards first cost and maintenance. 1885. (See Na-115, p. 29.)
- METROPOLITAN DISTRICT RY. (LONDON).** Ventilation of the Metropolitan Ry. tunnels: Memorandum submitted to the Committee appointed by the Board of Trade; together with a verbatim reprint of the examination of the author of the memorandum, before the Committee, as given in their official report to the President of the Board of Trade, dated 3d Aug., 1897. Ernest Callard. 1898. (See Bc-60.)
- METROPOLITAN RY. (LONDON).** Ventilation of the M. Ry. tunnels: Memorandum submitted to the Committee appointed by the Board of Trade; together with a verbatim reprint of the examination of the author of the memorandum before the Committee, as given in their official report to the President of the Board of Trade, dated 3d Aug., 1897. Ernest Callard. 1898. (See Bc-60.)
- NEW YORK & BROOKLYN BRIDGE.** Report of the Board of Expert Engineers on the Manhattan Terminal of the N. Y. & B. Bridge. New York City-Commissioner of Bridges. 1901. (See Fg-99.)
- NEW YORK CITY.** Agreements between the Mayor, Aldermen and Commonalty of the City of New York, and the Harlem, Hudson River, Sixth, Eighth, Second and Third Avenue R. R. Companies, relative to laying rails through the streets and avenues of the City. 1854. (See Bf-43.)
 —Sanitary condition of street-cars in New York. G. A. Soper. 1902. (See Eg-73.)
- 24 **SANTIAGO, CHILE.** La impressa de traccion alumbrado electricos de Santiago. O. D. Izquierdo. Santiago, 1901. 108 pp., 10 x 7, pap.
- SECOND AVENUE R. R. (NEW YORK.)** Agreements between the Mayor, Aldermen and Commonalty of the City of New York, and the Harlem, Hudson River, Sixth, Eighth, Second and Third Avenue R. R. Companies, relative to laying rails through the streets and avenues of the City. 1854. (See Bf-43.)

B4—(Continued).

SIXTH AVENUE R. R. (NEW YORK). Agreements between the Mayor, Aldermen and Commonalty of the City of New York, and the Harlem, Hudson River, Sixth, Eighth, Second and Third Avenue R. R. Companies, relative to laying rails through the streets and avenues of the City. 1854. (See Bf-48.)

THIRD AVENUE R. R. (NEW YORK). Agreements between the Mayor, Aldermen and Commonalty of the City of New York, and the Harlem, Hudson River, Sixth, Eighth, Second and Third Avenue R. R. Companies, relative to laying rails through the streets and avenues of the City. 1854. (See Bf-48.)

RAILROADS, STREET—OPERATION.**Be**

BROOKLYN, N. Y. Contract No. 2, being for construction and operation of Brooklyn-Manhattan Rapid Transit R. R. New York City-Board of Rapid Transit Railroad Commissioners. 1902. (See Bc-63, v. 4 and 5.)

CENTRAL LONDON RY. Report of the Committee appointed by the Board of Trade to enquire into the vibration caused by the working of the traffic on the C. L. Ry. 1902. (See Bj-1.)

- 48 **CHEMIN DE FER METROPOLITAIN DE PARIS.** Description du réseau projeté, lignes actuellement exécutées, usine de Bercy, exploitation des lignes actuellement en construction. A. Dumas. Paris, 1901. 188 pp., il., pl., maps, 10 x 6, $\frac{1}{4}$ mor.

DUTCH EAST INDIA. Les chemins de fer aux colonies et dans les pays neufs: Fascicule concernant les chemins de fer et les tramways à vapeur aux Indes Orientales Néerlandaises. J. W. Post. 1900. (See Ac-6.)

GENERAL.

DAWSON, PHILIP. Efficiency, maintenance and depreciation of street railways. 1901. (See Ba-13, p. 1153.)

HAUPT, HERMAN, and J. L. MEIGS. Reports on the Meigs elevated railroad and description of the same by the inventor. Bost., 1881. 48 pp., 9 x 6, b. p. Af-304, p. 153.

HERRICK, A. B. Operation of street railways. 1901. (See Ba-12, p. 372.)

GLASGOW, SCOTLAND. Annual report of the Tramways Committee; 1899. (See Bh-20.)

- 41 — Glasgow's municipal tramways; public and private management compared. M. R. Maltbie. no place, 1900. pp. 40-59, 9 x 6, pap.

INDIANAPOLIS CABLE STREET R. R. Articles of association, ordinances, bonds and mortgages, prospectus, etc., of the company. Indianapolis, 1897. 34 pp., 9 x 6, b. p. no title-page. Ab-456, p. 215.

MANHATTAN RY. (NEW YORK). By-laws and business organization, adopted Jan., 1890, amended Dec. 14th, 1890. no place, 1890. 13 pp., 9 x 6, b. p. Ae-289, p. 77.

— Copy of a letter of the President of the M. Ry. Co. to Hugh J. Grant, Mayor of the City of New York. Jay Gould. Note: Letter asking that additional terminals' facilities be granted to the company. 1890. (See Bb-54.)

MASSACHUSETTS. Development of street railways in the Commonwealth of Massachusetts. W. S. Allen. no date. (See Bj-2.)

METROPOLITAN DISTRICT RY. (LONDON). Report of the Committee appointed to inquire into the system of ventilation of tunnels on the Metropolitan Ry.; together with the proceedings of the Committee, minutes of evidence, appendix and index. Great Britain-Board of Trade. 1897. (See Bj-11.)

- 42 **METROPOLITAN R. R. (BOSTON).** Circular relative to increase of rates upon the road. Bost., 1893. 16 pp., 9 x 6, pap. no title-page.

METROPOLITAN RY. (LONDON). Report of the Committee appointed to inquire into the system of ventilation of tunnels on the M. Ry., together with the proceedings of the Committee, minutes of evidence, appendix and index. Great Britain-Board of Trade. 1897. (See Bj-11.)

NEW YORK CITY. Contracts for construction and operation of Rapid Transit R. R. Board of Rapid Transit Railroad Commissioners. Contents: No. 1, New York City Rapid Transit R. R. No. 2, Brooklyn-Manhattan Rapid Transit R. R. 1899-1902. (See Bc-63.)

— Facts in regard to the elevated railway litigation, including Judge Van Brunt's findings. 1894. (See Bf-45.)

— In the matter of the investigation of the elevated railroads of New York City. New York State-Board of Railroad Commissioners. Note: Majority report. Albany, 1898. 31 pp., 9 x 6, b. p. no title-page. Ab-455, p. 349.

— Minority report in the matter of the investigation of the elevated railroads of New York City. New York State-Board of Railroad Commissioners. Albany, 1898. 28 pp., 9 x 6, b. p. no title-page. Ab-455, p. 321.

Be—(Continued).

—Second preliminary draft of contract for construction and operation of rapid transit railroad. Board of Rapid Transit Railroad Commissioners. 1897. (See Bf-60.)

- 20 **PARIS, FRANCE.** Amélioration des transports en commun à Paris. Marcel Delmas. Paris, 1901. 48 pp., 11., 9 x 6, pap.

RAILROADS, STREET—LEGAL DOCUMENTS.

Bf

BOSTON, MASS. Boston subways: Remarks before the Committee on Metropolitan Affairs, State House, 4th March, 1901; by Thomas N. Hart, Mayor of Boston. 1901. (See Bb-51.)

- 35 —Charters and locations of the several street railways in the City of Boston. City Clerk. Bost., 1868-79. 2 v., 9 x 6, ¾ ro.
- 27 **BROADWAY R. R. (BROOKLYN).** In the matter of the application of the Brooklyn, Winfield & Newtown R. R. Co., Appellant, to acquire the right to use the tracks of the B. R. R. Co., Respondent: Opinions of the Court. New York State-Court of Appeals. N. Y., 1878. 10 pp., 10 x 7, pap.
- 44 **BROADWAY R. R. (NEW YORK).** Majority and Minority reports of the Special Committee relative to constructing a railroad in Broadway. New York City-Board of Aldermen. N. Y., 1852. pp. 1407-1452, 9 x 6, pap.
- 31 **BROADWAY SURFACE R. R. (NEW YORK).** Before the Senate Committee on Railroads in support of the bills introduced by the Committee, memoranda of authorities, list of charters repealed and of corporations dissolved, March, 1886. C. A. Seward and Roscoe Conkling. no place, 1886. 84 pp., 10 x 7, pap.
- 52 **BROOKLYN, N. Y.** City railroads and gas companies: Resolutions, etc., of the Common Council of the City of Brooklyn and laws of the State of New York granting franchises to railroad and gas companies of said City, and also agreements with, and bonds of said companies. no place, no date. 115 pp., 9 x 6, pap.
- 25 **BROOKLYN CENTRAL R. R.** Supreme Court, General Term; the Brooklyn Central R. R. Co. against the Brooklyn City R. R. Co.: Opinion of Judge Brown. Brooklyn, 1880. 19 pp., 9 x 6, pap.
- 25 **BROOKLYN CITY R. R.** Supreme Court, General Term; the Brooklyn Central R. R. Co. against the Brooklyn City R. R. Co.: Opinion of Judge Brown. Brooklyn, 1880. 19 pp., 9 x 6, pap.
- 27 **BROOKLYN, WINFIELD & NEWTOWN R. R.** In the matter of the application of the B., W. & N. R. R. Co., Appellant, to acquire the right to use the tracks of the Broadway R. R. Co., Respondent: Opinions of the Court. New York State-Court of Appeals. N. Y., 1878. 10 pp., 10 x 7, pap.
- 53 **BUFFALO TRACTION CO.** Testimony before the Board in the matter of the application of the B. T. Co. for a certificate under Section 59 of the Railroad Law. New York State-Board of Railroad Commissioners. Note: Relates to the location of the road in the City of Buffalo. no place, 1896. 48 pp., 9 x 6, pap.
- 26 **COLUMBUS & NINTH AVENUE R. R. (NEW YORK).** To New York Guaranty & Indemnity Co., Trustee; mortgage dated Aug. 24th, 1893; (and) C. & N. A. R. R. Co. and Metropolitan Street Ry. Co. to New York Guaranty & Indemnity Co., Trustee, additional security for bonds, Mar. 1st, 1895. N. Y., 1895. 26 pp., 9 x 6, pap.
- 43 **EIGHTH AVENUE R. R. (NEW YORK).** Agreements between the Mayor, Aldermen and Commonalty of the City of New York, and the Harlem, Hudson River, Sixth, Eighth, Second and Third Avenue R. R. Companies, relative to laying rails through the streets and avenues of the City. N. Y., 1854. 59 pp., 9 x 6, pap.
- 30 **GILBERT ELEVATED RY. (NEW YORK).** Rapid transit opinions: The G. E. Ry. Co., Respondent, against E. Ellery Anderson and others, Appellants; in the matter of the New York Elevated Ry. Co. New York State-Court of Appeals. Note: Opinions relate to the appraisal of damages to property caused by the construction and operation of the elevated railroads, and to the constitutionality of the Rapid Transit Act of 1875. N. Y., 1877. 57 pp., 11 x 7, pap.
- INDIANAPOLIS CABLE STREET R. R.** Articles of association, ordinances, bonds and mortgages, prospectus, etc., of the company. Indianapolis, 1887. 34 pp., 9 x 6, b. p. no title-page. Ab-456, p. 215.
- 28 **LEXINGTON AVENUE & PAVONIA FERRY R. R. (NEW YORK).** To Central Trust Co. of New York, Trustee; mortgage dated Aug. 24th, 1893; and Metropolitan Street Ry. Co. to Central Trust Co., Trustee, additional security for bonds, Mar. 1st, 1895. N. Y., 1895. 33 + 19 pp., 9 x 6, pap.
- 42 **MANHATTAN RY. (NEW YORK).** Court of Common Pleas; Metropolitan Elevated Ry. Co. against M. Ry. Co., the New York Elevated Ry. Co., et al.: Opinion of Judge Van Brunt. N. Y., 1883. 157 pp., 11 x 7, pap.
- 45 —Facts in regard to the elevated railway litigation, including Judge Van Brunt's findings. N. Y., 1884. 76 pp., 9 x 6, pap.

Bf—(Continued).

- 36 —New York Supreme Court, Appellate Division, First Judicial Department; the people *ex rel.* the M. Ry. Co., Relator and Appellant, against Edward P. Barker, Theodore Sutro and James L. Wells, as Commissioners of Taxes and Assessments of the City of New York, Respondents; taxes of 1895: Brief and points in behalf of the Respondents. F. M. Scott. N. Y., 1896. 47 pp., 11 x 8, pap.
- 41 —New York Supreme Court, First Appellate Division, Henry Otten, Plaintiff and Appellant, *vs.* the M. Ry. Co., Defendant and Respondent: Appellant's brief: Statement of facts. W. M. Badger. Note: Relates to depreciation of real estate caused by the Defendant's railroad. no place, 1893. 11 pp., 11 x 8, pap. no title-page.
- 39 —Supreme Court, Appellate Division, First Department; Adelaide Tagliabue, *et al.*, Plaintiffs-Respondents, against the M. Ry. Co., the New York Elevated R. R. Co. and the Metropolitan Elevated Ry. Co., Defendants-Appellants: Appellants' argument. J. T. Davies and W. H. Godden. no place, 1896. 20 pp., 11 x 8, pap. no title-page.
- 37 —Supreme Court, Appellate Division, First Department; Bridget Hare, Plaintiff and Respondent, against the M. Ry. Co. and the Metropolitan Elevated Ry. Co., Defendants and Appellants: Appellants' points. J. T. Davies and Howard McWilliams. no place, 1896. 18 pp., 11 x 8, pap. no title-page.
- 38 —Supreme Court, Appellate Division, First Department; Eugene O'Sullivan, *et al.*, Plaintiffs-Respondents, against the New York Elevated R. R. Co. and the M. Ry. Co., Defendants-Appellants: Brief for Appellants. J. T. Davies and Brainard Tolles. no place, 1897. 57 pp., 11 x 8, pap. no title-page.
- 40 —Supreme Court, Appellate Division, First Department; William T. Innes, Respondent, against the M. Ry. Co. and the New York Elevated R. R. Co., Appellants: Respondent's brief. H. A. Forster and L. L. Delafield. N. Y., 1895 (?) 19 pp., 11 x 8, pap. no title-page.
- 50 —Supreme Court, County of New York, General Term; case on appeal: Appendix B, Defendants' exhibits. Rutherford Stuyvesant against New York Elevated R. R. Co. and M. Ry. Co. N. Y., 1895. 7 pp. + pp. 1641-2220, 11 x 8, pap.
- 42 **METROPOLITAN ELEVATED RY. (NEW YORK).** Court of Common Pleas; M. E. Ry. Co. against Manhattan Ry. Co., the New York Elevated Ry. Co., *et al.*: Opinion of Judge Van Brunt. N. Y., 1888. 157 pp., 11 x 7, pap.
- 45 —Facts in regard to the elevated railway litigation, including Judge Van Brunt's findings. N. Y., 1884. 76 pp., 9 x 6, pap.
- 39 —Supreme Court, Appellate Division, First Department; Adelaide Tagliabue, *et al.*, Plaintiffs-Respondents, against the Manhattan Ry. Co., the New York Elevated R. R. Co. and the M. E. Ry. Co., Defendants-Appellants: Appellants' argument. J. T. Davies and W. H. Godden. no place, 1896. 20 pp., 11 x 8, pap. no title-page.
- 37 —Supreme Court, Appellate Division, First Department; Bridget Hare, Plaintiff and Respondent, against the Manhattan Ry. Co. and the M. E. Ry. Co., Defendants and Appellants: Appellants' points. J. T. Davies and Howard McWilliams. no place, 1896. 18 pp., 11 x 8, pap. no title-page.
- 6 **METROPOLITAN STREET RY. (NEW YORK).** Columbus & Ninth Avenue R. R. Co. to New York Guaranty & Indemnity Co., Trustee, mortgage dated Aug. 24th, 1893; (and) C. & N. A. R. R. Co. and M. S. Ry. Co. to New York Guaranty & Indemnity Co., Trustee, additional security for bonds, Mar. 1st, 1895. N. Y., 1895. 26 pp., 9 x 6, pap.
- 28 —Lexington Avenue & Pavonia Ferry R. R. Co. to Central Trust Co., of New York, Trustee, mortgage dated Aug. 24th, 1893; and M. S. Ry. Co. to Central Trust Co., Trustee, additional security for bonds, Mar. 1st, 1895. N. Y., 1895. 33 + 19 pp., 9 x 6, pap.
- 49 **NEW YORK CABLE RY.** New York Supreme Court, General Term, First Department; before Messrs. Guy R. Pelton, William C. Traphagen, Leroy B. Crane, Commissioners appointed to determine whether certain cable railways ought to be constructed; in the matter of the application of the N. Y. C. Ry. Co.: Objections of the Trustees of Gramercy Park and of property owners on Gramercy Park, Lexington Avenue and Irving Place, and of other citizens, to the construction of a cable railway over Route No. One as laid down by the Rapid Transit Commissioners, and especially to that part of said route lying through Gramercy Park, Lexington Avenue and Irving Place. J. M. Varnum. N. Y., 1885. 104 pp., pl., 11 x 7, pap.
- 43 **NEW YORK CITY.** Agreements between the Mayor, Aldermen and Commonalty of the City of New York, and the Harlem, Hudson River, Sixth, Eighth, Second and Third Avenue R. R. Companies, relative to laying rails through the streets and avenues of the City. N. Y., 1854. 59 pp., 9 x 6, pap.
- History of underground railroad charters and their present legal status, Jan., 1886. H. D. Sedgwick and N. J. Waterbury. no place, 1886. 12 pp., 9 x 6, b. p. Aa-83, p. 377.

Bf—(Continued).

- 49 — New York Supreme Court, General Term, First Department; before Messrs. Guy R. Pelton, William C. Traphagen, Leroy B. Crane, Commissioners appointed to determine whether certain cable railways ought to be constructed; in the matter of the application of the New York Cable Ry. Co.: Objections of the Trustees of Gramercy Park and of property owners on Gramercy Park, Lexington Avenue and Irving Place and of other citizens, to the construction of a cable railway over Route No. One as laid down by the Rapid Transit Commissioners, and especially to that part of said route lying through Gramercy Park, Lexington Avenue and Irving Place. J. M. Varnum. N. Y., 1885. 104 pp., pl., 11 x 7, pap.
- 50 — Rapid Transit opinions: The Gilbert Elevated Ry. Co., Respondent, against E. Ellery Anderson and others, Appellants; in the matter of the New York Elevated Ry. Co. New York State Court of Appeals. Note: Opinions relate to the appraisal of damages to property, caused by the construction and operation of the elevated railroads, and to the constitutionality of the Rapid Transit Act of 1875. N. Y., 1877. 57 pp., 11 x 7, pap.
- 60 — Second preliminary draft of contract for construction and operation of rapid transit railroad. Board of Rapid Transit Railroad Commissioners. no place, 1897. 206 pp., 11 x 8, pap.
- 51 — Supreme Court, Appellate Division, Second Department; in the matter of the application of the Board of Rapid Transit Commissioners of the City of New York, for the appointment of three commissioners to determine, &c.; (Brooklyn-Manhattan Rapid Transit): Brief urging four track service. J. De W. Warner. N. Y., 1901. 42 pp., pl., 10 x 8, pap.
- 61 — Synopsis of the laws of the State of New York, and of the ordinances and resolutions of the Common Council of the City of New York relating to railroads located wholly or in part in said City. Allan Campbell, comp. N. Y., 1878. 228 pp., 10 x 7, sh.
- 47 **NEW YORK CITY CENTRAL UNDERGROUND RY.** Decree defining and declaring the rights and property of the N. Y. C. U. Ry. Co., as ordered to be sold, and as sold in 1876; with the charter. New York City-Superior Court. N. Y., 1876. 26 pp., 9 x 6, pap.
- 46 **NEW YORK ELEVATED R. R.** Court of Common Pleas, for the City and County of New York; Rufus Story against the N. Y. E. R. R. Co.: Argument for the Defendants. D. D. Field. Note: Relates to application for injunction to restrain the company from constructing an elevated railroad. N. Y., 1877. 56 pp., 10 x 7, pap.
- 42 — Court of Common Pleas; Metropolitan Elevated Ry. Co. against Manhattan Ry. Co., the N. Y. E. Ry. Co., *et al.*: Opinion of Judge Van Brunt. N. Y., 1883. 157 pp., 11 x 7, pap.
- 45 — Facts in regard to the elevated railway litigation, including Judge Van Brunt's findings. N. Y., 1884. 76 pp., 9 x 6, pap.
- 30 — Rapid transit opinions: The Gilbert Elevated Ry. Co., Respondent, against E. Ellery Anderson and others, Appellants; in the matter of the N. Y. E. Ry. Co. New York State Court of Appeals. Note: Opinions relate to the appraisal of damages to property, caused by the construction and operation of the elevated railroads, and to the constitutionality of the Rapid Transit Act of 1875. N. Y., 1877. 57 pp., 11 x 7, pap.
- 39 — Supreme Court, Appellate Division, First Department; Adelaide Tagliabue, *et al.* Plaintiffs-Respondents, against the Manhattan Ry. Co., the N. Y. E. R. R. Co. and the Metropolitan Elevated Ry. Co., Defendants-Appellants: Appellants' argument. J. T. Davies and W. H. Godden. no place, 1896. 20 pp., 11 x 8, pap. no title-page.
- 38 — Supreme Court, Appellate Division, First Department; Eugene O'Sullivan, *et al.*, Plaintiffs-Respondents, against the N. Y. E. R. R. Co. and the Manhattan Ry. Co., Defendants-Appellants: Brief for Appellants. J. T. Davies and Brainard Tolles. no place, 1897. 57 pp., 11 x 8, pap. no title-page.
- 40 — Supreme Court, Appellate Division, First Department; William T. Innes, Respondent, against the Manhattan Ry. Co. and the N. Y. E. R. R. Co., Appellants: Respondent's brief. H. A. Forster and L. L. Delafield. N. Y., 1895 (?) 19 pp., 11 x 8, pap. no title-page.
- 50 — Supreme Court, County of New York, General Term; case on appeal: Appendix B, Defendants' exhibits. Rutherford Stuyvesant against N. Y. E. R. R. Co. and Manhattan Ry. Co. N. Y., 1895. 7 pp. + pp. 1641-2220, 11 x 8, pap.
- NEW YORK UNDERGROUND RY.** History of underground railroad charters and their present legal status, Jan., 1886. H. D. Sedgwick and N. J. Waterbury. Note: Has special reference to the rights and advantages of the N. Y. U. Ry. Co. no place, 1886. 12 pp., 9 x 6, b. p. Aa-83, p. 377.
- 43 **SECOND AVENUE R. R. (NEW YORK).** Agreements between the Mayor, Aldermen and Commonalty of the City of New York, and the Harlem, Hudson River, Sixth, Eighth, Second and Third Avenue R. R. Companies, relative to laying rails through the streets and avenues of the City. N. Y., 1854. 59 pp., 9 x 6, pap.

Bf—(Continued).

- 43 **SIXTH AVENUE R. R. (NEW YORK).** Agreements between the Mayor, Aldermen and Commonalty of the City of New York, and the Harlem, Hudson River, Sixth, Eighth, Second and Third Avenue R. R. Companies, relative to laying rails through the streets and avenues of the City. N. Y., 1854. 59 pp., 9 x 6, pap.
- 43 **THIRD AVENUE R. R. (NEW YORK).** Agreements between the Mayor, Aldermen and Commonalty of the City of New York, and the Harlem, Hudson River, Sixth, Eighth, Second and Third Avenue R. R. Companies, relative to laying rails through the streets and avenues of the City. N. Y., 1854. 59 pp., 9 x 6, pap.
- 48 **UNION RY. CO. OF NEW YORK CITY.** Appellate Division of the Supreme Court, First Department; Lawrence Anselment, Respondent, vs. Union Ry. Co. of New York City, Appellant; Respondent's points: Statement. E. G. Davis. Note: Suit to recover damages for injuries sustained by the Plaintiff. no place, 1895 (?) 4 pp., 10 x 8, pap. no title-page.

RAILROADS, STREET—REPORTS, COMPANY.**Bg**

- 6 **BOSTON ELEVATED RY.** Annual report of the Directors; 3d; for the year ending Sept. 30th, 1900. Bost., 1900. 1 v., 9 x 6, pap.
- 11 **BROOKLYN RAPID TRANSIT CO.** Report of the Board of Directors to the Stockholders for the year ending June 30th, 1901-02. no place, 1901-02. 2 v., 9 x 6, pap.
- 12 **INTERNATIONAL TRACTION CO. (BUFFALO, N. Y.).** Comparative summary of condensed operating statements of the allied companies, controlled by the I. T. Co., for fiscal year ending June 30th, 1900-01. no place, 1901. 2 v. in 1, 11 x 9, pap.
- 4 **METROPOLITAN R. R. (BOSTON).** Annual report for the year ending Nov. 30th, 1885. Bost., 1886. 1 v., 9 x 6, pap.
- 5 **WEST END STREET RY. (BOSTON).** Annual report; 1st-2d, 4th, 6th-9th; for the year ending Sept. 30th, 1888-89, '91, '93-96. Bost., 1888-96. 7 v., 10 x 7, pap.

RAILROADS, STREET—REPORTS, CITY.**Bh**

- 3 **BOSTON, MASS.—TRANSIT COMMISSION.** Annual report; 6th-7th; 1900-01. Bost., 1900-01. 2 v., pl., 9 x 6, cl.
- 6 **BROOKLYN, N. Y.—BOARD OF RAPID TRANSIT COMMISSIONERS.** Report of the Committee on Construction, to whom was referred the duty of selecting a suitable plan of elevated steam railway for the City of Brooklyn, June 27th, 1878. no place, 1878. 20 pp., 9 x 6, pap.
- 20 **GLASGOW, SCOTLAND—TRAMWAYS COMMITTEE.** Annual report; 5th; for the year ending May 31st, 1899. Glasgow, 1899. 1 v., map, 13 x 8, pap.
- NEW YORK—BOARD OF RAPID TRANSIT RAILROAD COMMISSIONERS.** Contracts for construction and operation of Rapid Transit R. R. Contents: No. 1, New York City Rapid Transit R. R. No. 2, Brooklyn-Manhattan Rapid Transit R. R. 1899-1902. (See Bc-68.)
- 19 —Report, accompanied by reports of the Chief Engineer and of the Auditor; Mar., 1900-Dec., '01. N. Y., 1902. 1 v., pl., 10 x 7, pap.
- 18 **NEW YORK—COMMISSIONERS OF ACCOUNTS.** Report, transmitting to His Honor the Mayor a report of a special examination of the "Bureau for the Collection of City Revenue and of Markets" of the Finance Department, to determine the correctness of the returns made by corporations operating street surface and elevated railroads, to the Finance Department, for car license and franchise tax in all of the boroughs of Greater New York, from Oct. 1, 1889, to Oct. 1, 1899. N. Y., 1901. 8 + 277 pp., tab., 10 x 7, pap.
- NEW YORK—COMPTROLLER.** Tunnels or bridges; being a communication to the Board of Estimate and Apportionment from Bird S. Coler, Comptroller, on the subject of transportation across the East River, with reports favoring and opposing the views therein set forth, by W. B. Parsons, Jacobs & Davies, R. S. Buck, C. C. Martin and S. R. Probasco. 1899. (See Fa-159.)
- NEWTON, MASS.—CITY ENGINEER.** Annual report; 1900-01. (See On40-2.1.)
- YONKERS, N. Y.—BOARD OF COMMISSIONERS OF RAPID TRANSIT.** Minutes of the meetings of the Commissioners in relation to the construction of the Yonkers Rapid Transit Ry., Mar. 18th-June 11th, 1880. no place, 1880. 45 pp., 9 x 6, b. p. no title-page. Af-308. p. 299.

RAILROADS, STREET—REPORTS, STATE.**Bi**

- CONNECTICUT—RAILROAD COMMISSIONERS.** Annual report; to which are added statistical tables compiled from annual returns of the railroad companies of the state; 1900-01. Note: Contains the returns of street railroads. (See Ah-15.)

RAILROADS, STREET—REPORTS, STATE.

Bi—(*Continued*).

- MASSACHUSETTS—BOARD OF RAILROAD COMMISSIONERS.** Annual report; 1900-01. (See Ah-8.)
- 4 **MASSACHUSETTS—STREET RAILWAY COMMISSIONERS.** Report to the General Court, Jan., 1865. Note: Report relates to the advisability of state legislation for street railways. Bost., 1865. 66 pp., 10 x 6, pap.
- NEW YORK—BOARD OF RAILROAD COMMISSIONERS.** In the matter of the investigation of the elevated railroads of New York City. Note: Majority report. Albany, 1883. 31 pp., 9 x 6, b. p. no title-page. Ab-455, p. 349.
- Minority report in the matter of the investigation of the elevated railroads of New York City. Albany, 1883. 28 pp., 9 x 6, b. p. no title-page. Ab-455, p. 321.
- 8 —Report of competitive tests of street car brakes held by the Board, 1899. Albany, 1900. 60 pp., pl., 28 tab., 9 x 6, pap.
- PENNSYLVANIA—SECRETARY OF INTERNAL AFFAIRS.** Annual report; 1890-91, '93-1901. (See Ah-2, Pt. 4.)
- RHODE ISLAND—RAILROAD COMMISSIONER.** Annual report; made to the General Assembly; 1886, '88, '90, '92, '94-1901. (See Ah-51.)

RAILROADS, STREET—REPORTS, GOVERNMENT.

Bj

- 11 **GREAT BRITAIN—BOARD OF TRADE.** Report of the Committee appointed to inquire into the system of ventilation of tunnels on the Metropolitan Ry.; together with the proceedings of the Committee, minutes of evidence, appendix and index. Lond., 1897. 18 + 161 pp., pl., 18 x 8, pap.
- 1 **GREAT BRITAIN—COMMITTEE ON CENTRAL LONDON RY. (VIBRATION).** Report of the Committee appointed by the Board of Trade to enquire into the vibration caused by the working of the traffic on the Central London Ry. Lond., 1902. 2 v., pl., 18 x 8, pap.
- 2 **GREAT BRITAIN—JOINT SELECT COMMITTEE ON LONDON UNDERGROUND RAILWAYS.** Report from the Joint Select Committee of the House of Lords and the House of Commons on London underground railways. Lond., 1901. 7 pp., 18 x 8, pap.
- ITALY—MINISTERO DEI LAVORI PUBBLICI.** Relazione sull' andamento dei servizi; July, 1898-Dec., '99. (See Ai-95.)

RAILROADS, STREET—HISTORY.

Bk

- 2 **MASSACHUSETTS.** Development of street railways in the Commonwealth of Massachusetts. W. S. Allen. no place, no date. 26 pp., map, tab., 10 x 7, pap.

WATERWAYS.

WATERWAYS—GENERAL.

Ca

- 88 ARGENTINE REPUBLIC—MINISTERIO DE OBRAS PUBLICAS. Concurso para la presentación de proyectos de trenes de dragado: Antecedentes dictamen de la Comisión Oficial propuestas de las casas premiadas: Werf Conrad & Ca. y Satre Fils Ainé & Ca. Buenos Aires, 1900. 16+240 pp., 42 pl., tab., 10 x 7, pap.
- 8.48 BATES, L. W. International navigation and its interests in the harbours and canals of the world, and means for their improvement. (International Cong. on Navigation, 8th.) Paris, 1900. 54 pp., pl., 11 x 8, pap.
- BLACK, W. M. United States public works; containing a summary of the methods of construction and character of materials and plant used in the public works under the charge of the War and Treasury Departments, and of the Commissioners of the District of Columbia, including works of river and harbor improvement, buildings at posts of the United States Army, lighthouse, public buildings, life-saving stations and works of municipal engineering of Washington, D. C., also of the laws, regulations and forms prescribed for the conduct of such works; and a directory of the United States agents in charge of these works, and of contractors for them. 1895. (See V-128.)
- 76 BUBENDEY. Die Grenzen der Seeschiffahrt: Rede zum Geburtsfeste Wilhelm II. am 26. Januar 1902 gehalten. Berlin, 1902. 20 pp., 11 x 8, pap.
- BÜCKING, H. Baggermaschinen. 1897. (See V-120, v. 4, Pt. 1, p. 123.)
- DEBAUVE, A. Sondages; terrassements; dragages. 1894. (See V-129, v. 1.)
- 81 GONDA, BELA DE. La navigation intérieure en Hongrie. Budapest, 1900. 206 pp., il., tab., 10 x 7, pp.
- 8.46 HOERSCHELMANN, E. F. DE, and S. M. JITKOFF. Institutions d'instruction pour le personnel de la batellerie: Communication. (International Cong. on Navigation, 8th.) Paris, 1900. 6 pp., 11 x 7, pap.
- 92 HUNGARY—MINISTÈRE ROYAL HONGROIS DE L'AGRICULTURE. Brochure; 1-7, 9-10. (Direction Nationale du Service des Eaux en Hongrie.) Budapest, 1900. 9 v., il., pl., maps, tab., 10 x 7, pap.
 1. L'Administration des eaux en Hongrie; par Léopold Faragó.
 2. Le service national hydrométrique en Hongrie; par Joseph Péch.
 3. Nivellement de haute précision de 1890 à 1895 de la Section Hydrographique de la Direction Nationale du Service des Eaux; par Balthasar de Szilágyi.
 4. L'état actuel des jaugeages en Hongrie; par Samuel Hajós.
 5. Le service de l'hydraulique agricole en Hongrie; par Ladislav Józsa.
 6. École Roy. Hongr. des Commis de l'Hydraulique Agricole; par Joseph Udránszky.
 7. Les travaux de régularisation et d'endiguement en Hongrie; par Edmond de Kolos-váry.
 9. Le service des Ingénieurs sanitaires en Hongrie; par Kálmán de Farkass.
 10. La pêche et la pisciculture en Hongrie; par Nicolas Répássy.
- 7 INTERNATIONAL CONGRESS ON INLAND NAVIGATION; 7th. Papers, etc. Brussels, 1898; Wash., 1900. 6 v., various sizes, pap., cl.
- 8.42 INTERNATIONAL CONGRESS ON NAVIGATION; 8th. Committee of Study for elaborating a scheme in view of the permanent organization of international congresses on navigation: Report presented by the Board of the Provisional Committee. Paris, 1900. 21 pp., 11 x 7, pap.
- 8.54 —Compte rendu des travaux du Congrès. Paris, 1901. 5+686 pp., il., pl., 11 x 8, cl.
- 8.56 —Compte rendu sommaire. Paris, 1900. 59+1 pp., 10 x 7, pap.
 - 8 —Papers, etc. Paris, 1900. 54 v., various sizes, pap.
- 8.55 —Renseignements et documents: Listes des délégués et adhérents: Discours prononcés aux séances plénières. Paris, 1900. 156 pp., 11 x 8, pap.
- 79 INTERNATIONAL ENGINEERING CONGRESS, GLASGOW, 1901. Compte rendu des travaux de la 2e section, par le Baron Quinette de Rochemont. Note: Waterways and maritime works. Paris, 1902. 61 pp., il., pl., 9 x 6, pap.
- Proceedings of Section II, Waterways and maritime works. 1902. (See Aa-109a, v. 2.)

Ca—(Continued).

- Report of the proceedings and abstracts of the papers read; with a preface by Robert Caird, Chairman of the Executive Committee. 1902. (See Aa-109.)
- 84 **LEGER, ALFRED.** Les travaux publics, les mines et la métallurgie aux temps des Romains; la tradition romaine jusqu'à nos jours. Paris, 1875. 9 + 798 pp., pl., tab., 11 x 7, ¼ mor.
- MÜLLER, FRIEDRICH.** Das Wasserwesen der niederländischen Provinz Zeeland. 1898. (See Eb-56.)
- 89 **NEW JERSEY—RIPARIAN COMMISSIONERS.** Annual report; with accompanying documents; 1878-79, '87, '94-95. Trenton, 1878-95. 5 v., maps, 9 x 6, pap.
- RUSSIA—DIRECTION DES VOIES NAVIGABLES DES CHAUSSEES ET DES Ports de Commerce.** Exposition Universelle de 1900: Notice sur les voies navigables, les chaussées et les ports de commerce de la Russie, par N. Vonnensensky: Catalogue des objets exposés par la Direction. (Ministère des Voies de Communication.) 1900. (See Yf-169.)
- UHLAND, W. H., ed.** Wasserbau und Wassermotoren. 1890. (See Ga-161, v. 7.)
- UNITED STATES—COAST AND GEODETIC SURVEY.** Report of the Superintendent, showing the progress of the work for the fiscal year ending June 30th, 1899-1901. (See Qe-80.)
- UNITED STATES—CORPS OF ENGINEERS.** Annual report of the Chief of Engineers to the Secretary of War for the fiscal year ending June 30th, 1900-1901. (See Cc-98.)
- 87 —Specifications, etc., for chartering barges. Buffalo, 1889. 5 pp., 14 x 9, pap. no title-page.
- 86 —Specifications, etc., for constructing and altering barges. various places, 189-. 23 v., 14 x 8, pap. no title-page.
- 88 —Specifications, etc., for construction and repair of dredges and dredging machinery. various places, 189-. 30 v., 14 x 8, pap. no title-page.
- 90 —Specifications, etc., for construction and repair of dump-boats. various places, 1894-98. 4 v., 14 x 8, pap. no title-page.
- 91 —Specifications, etc., for construction and repair of flat-boats. various places, 1898-97. 4 v., 14 x 8, pap. no title-page.
- 93 —Specifications, etc., for construction and repair of lighters. Richmond, 1889. 6 pp., 14 x 8, pap. no title-page.
- 94 —Specifications, etc., for construction and repair of maneuvering boats. Cin., 1885-94. 2 v., 14 x 8, pap. no title-page.
- 95 —Specifications, etc., for construction and repair of office and survey boats. St. Louis, 1893. 7 pp., 14 x 8, pap. no title-page.
- 96 —Specifications, etc., for construction and repair of quarters-boats. Detroit, 1895. 15 pp., 14 x 9, pap. no title-page.
- 97 —Specifications, etc., for construction and repair of scows. various places, 189-. 13 v., 14 x 8, pap. no title-page.
- 98 —Specifications, etc., for construction, repair and hire of snag-boats. various places, 189-. 31 v., 14 x 8, pap. no title-page.
- 80 —Specifications, etc., for hire or purchase of dredges and dredging plants. various places, 189-. 34 v., 14 x 8, pap. no title-page.
- 99 —Specifications, etc., for the construction of steam derrick boats, pile drivers, etc. various places, 1885-91. 3 v., 14 x 8, pap. no title-page.
- 74 **VERNON-HARCOURT, L. F.** Paris Navigation Congress, 1900: Recent works on the Lower Seine, harbor works at Havre, and at Zeebrugge, and improvements effected by the French Lighthouse Service. Lond., 1901. 38 pp., 11., pl., 9 x 6, pap.
- WASSERBAU.** 1900. (See V-120, v. 3.)

WATERWAYS—RIVERS.**Cb**

- 535 **AARE RIVER.** Tabellarische Zusammenstellung der Haupt-Ergebnisse der schweizerischen hydrometrischen Beobachtungen für das Jahr; 1886-90, '94. Switzerland-Hydrometrische Abteilung des eidgenössischen Oberbauinspektorates. Berne, 1896-1901. 6 v., 14 x 10, pap.
- 535 **ADDA RIVER.** Tabellari.che Zusammenstellung der Haupt-Ergebnisse der schweizerischen hydrometrischen Beobachtungen für das Jahr; 1894. Switzerland-Hydrometrische Abteilung des eidgenössischen Oberbauinspektorates. Berne, 1901. 1 v., 14 x 10, pap.
- ALABAMA.** Hydrography of the Southern Appalachian Mountain Region. H. A. Pressey. (U. S. Geological Survey. Water Supply and Irrigation Papers.) 1902. (See De-81, Nos. 62-63.)

Cb—(Continued).

- AUSTRIA-HUNGARY.** Influence des travaux de régularisation sur le régime des cours d'eau en Hongrie: Rapport. Eugène de Kvassay. (International Cong. on Navigation, 8th.) Budapest, 1900. 21 pp., pl., 10 x 7, pap. Ca-8.6.
- CALIFORNIA.** Report of the Commissioner of Public Works to the Governor; 1899-1900. Note: Relates principally to the drainage of the Valley of California. (See Eb-36.)
- 115 — Report of the State Engineer to the Legislature of the State of California; 2d; 1861. Sacramento, 1861. 1 v., tab., 9 x 6, pap.
- CHANDLAR RIVER.** Preliminary report on a reconnaissance along the Chandlar and Koyukuk Rivers, Alaska, in 1899. F. C. Schrader. (U. S. Geological Survey.) 1901. (See Yh-40, Annual report, 1899-1900, Pt. 2, p. 441.)
- CHITINA RIVER.** Reconnaissance of the Chitina River and the Skolai Mountains, Alaska. Oscar Rohm. (U. S. Geological Survey.) 1901. (See Yh-40, Annual report, 1899-1900, Pt. 2, p. 393.)
- CLYDE RIVER.** Clyde navigation. T. R. Mackenzie. 1901. (See Qd-114, p. 261.)
- La Clyde et le port de Glasgow. W. M. Alston. 1902. (See Ca-79, p. 81.)
- COLORADO.** Tables showing the daily mean discharge of various rivers in Colorado; 1899-1900. State Engineer. (See De-116.)
- DANUBE RIVER.** Experiments made with tugs on the channel of the Gates of Iron: Report. Aloys Hoszpotzky. (International Cong. on Navigation, 8th.) Paris, 1900. 12 pp., 2 pl., 11 x 7, pap. Ca-8.20.
- Les travaux de régularisation et d'endiguement en Hongrie. Edmond de Kolossvary. 1900. (See Ca-92, Brochure 7.)
- Navigation on the Danube. C. V. Suppan. (International Cong. on Navigation, 8th.) 1900. (See Ca-8.10, p. 14.)
- Traction of boats on the channel of the Iron Gates of the Lower Danube: Report. Edward Egan. (International Cong. on Navigation, 8th.) Paris, 1900. 10 pp., 3 pl., 11 x 7, pap. Ca-8.19.
- 217 **ELBE RIVER.** Beantwortung der im Allerhöchsten Erlasse vom 28. Februar 1892 gestellten Frage B: "Welche Massregeln können angewendet werden, um für die Zukunft der Hochwassergefahr und den Ueberschwemmungsschäden soweit wie möglich vorzubeugen?" für das Elbstromgebiet. Germany-Ausschuss zur Untersuchung der Wasserverhältnisse in den der Ueberschwemmungsgefahr besonders ausgesetzten Flussgebieten. Berlin, 1899(?) 46 pp., 13 x 8, bds.
- 518 — Der Elbstrom, sein Stromgebiet und seine wichtigsten Nebenflüsse: Eine hydrographische, wasserwirtschaftliche und wasserrechtliche Darstellung: im Auftrage der deutschen Elbflurstaaten und unter Betheligung des preussischen Wasser-Ausschusses herausgegeben. Germany-Königliche Elbstrombauverwaltung zu Magdeburg. Berlin, 1898. 5 v. in 6, 11 x 8 (tab. 14 x 10, atlas 20 x 27), cl.
- Hydrometrische Arbeiten an der Elbe. Johannes von Wagner. 1881. (See Cb-516, p. 19.)
- 29 — L'Elba ed il suo bacino idrografico. Gaetano Crugnola. Torino, 1900. 92 pp., map, tab., 9 x 6, pap.
- 170 **EMS RIVER.** Beantwortung der im Allerhöchsten Erlasse vom 28. Februar 1892 gestellten Frage B: "Welche Massregeln können angewendet werden, um für die Zukunft der Hochwassergefahr und den Ueberschwemmungsschäden soweit wie möglich vorzubeugen?" für das Weser und Emestromgebiet. Germany-Ausschuss zur Untersuchung der Wasserverhältnisse in den der Ueberschwemmungsgefahr besonders ausgesetzten Flussgebieten. Berlin, 1902. various pagings, map, 13 x 8, bds.
- 782 — Weser und Ems, ihre Stromgebiete und ihre wichtigsten Nebenflüsse: Eine hydrographische, wasserwirtschaftliche und wasserrechtliche Darstellung: auf Grund des Allerhöchsten Erlasses vom 28. Februar 1892 herausgegeben von H. Keller. Germany-Preussischer Wasser-Ausschuss. Contents: v. 1, Stromgebiete und Gewässer. v. 2, Quell- und Nebenflüsse der Weser (ohne Aller). v. 3, Die Weser von Münden zu Geestemünde. v. 4, Die Aller und die Ems. v. 5, Tabellen und Anlagen. v. 6, Kartenbeilagen. Berlin, 1901. 6 v., maps, tab., 11 x 8 (tab. 13 x 11, atlas 20 x 17), cl.
- FOX RIVER.** Illustrated annual review of the *Appleton Post*, devoted to the City of Appleton, Wis., its water power and industries; also an historical sketch of Fox River Valley. A. J. Reid, comp. Appleton, 1879. 74 pp., il., 9 x 6, b. p. Za-39, p. 71.
- GARONNE RIVER.** Information on the training works of the Garonne River. Antoine Robert. (International Cong. on Navigation, 8th.) 1900. (See Ca-8.4, p. 4.)
- La Garonne. M. C. Lechalas. 1884. (See Cb-514, p. 115.)
- GENERAL.**
- AMERICAN SOCIETY OF CIVIL ENGINEERS.** Memoir upon rivers and harbors: by Theo. G. Ellis, Chairman of the Centennial Commission of the American Society of Civil Engineers, and Sub-Committee on Rivers and Harbors. 1876. (See Sa3-1.14.)

Cb—(Continued).

GENERAL—(Continued).

- BERTHOT, PIERRE.** Grand travaux de canalisation des rivières. no date. (See Na-133, v. 3, p. 443.)
- Traité des rivières.* no date. (See Na-133, v. 2.)
- BINDEMANN, H.** Influence of training works on the régime of streams and rivers: Report. (International Cong. on Navigation, 8th.) Paris, 1900. 13 pp., 2 pl., 11 x 7, pap. Ca-8. 1.
- BOSSE, J. VAN.** Utilization of natural navigable ways of slight depth beyond their maritime portion: Report. (International Cong. on Navigation, 8th.) Paris, 1900. 11 pp., 6 pl., 11 x 7, pap. Ca-8. 12.
- CAMPREDON, EUGENE.** Rôle économique et social des voies de communication. (Bibliothèque du Conducteur de Travaux Publics.) 1899. (See Zj-208.)
- CASTEL, CARLOS.** Inundaciones; medios de aminorar sus efectos. 1890. (See Ya-27, p. 150.)
- CORTHELL, E. L.** Report by E. L. Corthell, Delegate of the United States to the Seventh International Congress of Navigation, held at Brussels, Belgium, July, 1898. (56th Cong., 1st Sess. Senate Doc. No. 30.) Wash., 1900. 245 pp., pl., maps, 9 x 6, cl. Ca-7. 6.
- FRANZIUS, LUDWIG, and G. DE THIERRY.** Die Einwirkungen des Meeres auf die Strommündungen und deren Korrektion. 1901. (See V-120, v. 3, Pt. 3, p. 193.)
- KREUTER, FRANZ, H. GARBE, and ED. SONNE.** Flussbau. 1900. (See V-120, v. 3, Pt. 2, 1st half, p. 161.)
- 514 **LECHALAS, M. C.** Hydraulique fluviale. (Encyclopédie des Travaux Publics.) Paris, 1884. 464 pp., il., 10 x 7, $\frac{1}{4}$ mor.
- LEGER, ALFRED.** Les travaux publics, les mines et la métallurgie aux temps des Romains; la tradition romaine jusqu'à nos jours. 1875. (See Ca-54.)
- 537 **MAS, F. B. DE.** Recherches expérimentales sur le matériel de la batellerie. Paris, 1891-97. 132 pp., 39 pl., 13 x 9, $\frac{1}{4}$ mor.
- 515 —*Rivières à courant libre.* (Encyclopédie des Travaux Publics.) Paris, 1899. 16 + 479 pp., il., maps, 10 x 6, $\frac{1}{4}$ mor.
- MURPHY, E. C.** Accuracy of stream measurements. (U. S. Geological Survey. Water Supply and Irrigation Papers.) 1902. (See De-81, No. 64.)
- 536 **PARTIOT, H. L.** Recherches sur les rivières à marée. Paris, 1901. 2 v., il., 11 x 7 (atlas 12 x 9), pap.
- QUINETTE DE ROCHEMONT, BARON E. T., and HENRY DESPREZ.** Fleuves maritimes. 1901. (See Cc-115a, v. 2, p. 192.)
- ROBERT, ANTOINE.** Influence of training works on the régime of rivers: Report. (International Cong. on Navigation, 8th.) Paris, 1900. 26 pp., 2 pl., 11 x 7, pap. Ca-8. 4.
- ROTA, G.** On the resistance of boats as used for inland navigation: Model experiments on same: Report. (International Cong. on Navigation, 8th.) Paris, 1900. 9 pp., 2 pl., 11 x 7, pap. Ca-8. 21.
- SALVADOR, P. L.** Cours d'eau non navigables ni flottables. (Bibliothèque du Conducteur de Travaux Publics.) 1896. (See Yb-67, v. 1.)
- SCHROMM, ANTOINE.** Measures of protection and instruction for ships' crews: Report. (International Cong. on Navigation, 8th.) Paris, 1900. 16 pp., 11 x 7, pap. Ca-8. 23.
- 520 **SIEDEK, RICHARD.** Die natürlichen Normalprofile der fließenden Gewässer. Wien, 1902. 21 pp., pl., 9 x 6, pap.
- SUPPAN, C. V.** Navigation on streams and rivers: Report. (International Cong. on Navigation, 8th.) Paris, 1900. 31 pp., 4 pl., 11 x 7, pap. Ca-8. 10.
- TIMONOFF, V. E.** Training of large rivers by the mechanical dredging of channels and attraction of the waters: Report. (International Cong. on Navigation, 8th.) Paris, 1900. 14 pp., 3 pl., 11 x 7, pap. Ca-8. 13.
- VAUTHIER, L. L.** Note sur une meilleure utilisation des cours d'eau naturels comme voies navigables à l'aide de réservoirs d'étiage: Communication. (International Cong. on Navigation, 8th.) Paris, 1900. 14 pp., 11 x 7, pap. Ca-8. 43.
- 11 **VERNON-HARCOURT, L. F.** Experimental investigations on the action of sea water in accelerating the deposit of river silt and formation of deltas. Lond., 1900. 19 pp., 4 tab., 8 x 5, pap.
- River and canal engineering, and irrigation works. 1902. (See V-124, p. 323.)
- WAHL, ALBERT.** Utilization of natural navigable water-ways of slight depth beyond their maritime portion: Report. (International Cong. on Navigation, 8th.) Paris, 1900. 20 pp., 2 pl., 11 x 7, pap. Ca-8. 11.
- 441 **WHEELER, W. H.** Tidal rivers; their hydraulics, improvement, navigation. Lond., 1893. 8 + 467 pp., il., pl., map, 10 x 6, cl.

Cb—(Continued).

- GEORGIA.** Hydrography of the Southern Appalachian Mountain Region. H. A. Pressey. (U. S. Geological Survey. Water Supply and Irrigation Papers. 1902. (See De-81, Nos. 62-63.)
- 217 **GERMANY.** Beantwortung der im Allerhöchsten Erlasse vom 28. Februar 1892 gestellten Frage B: "Welche Massregeln können angewendet werden, um für die Zukunft der Hochwassergefahr und den Ueberschwemmungsschäden soweit wie möglich vorzubeugen?" für das Elbstromgebiet. Germany-Ausschuss zur Untersuchung der Wasserverhältnisse in den der Ueberschwemmungsgefahr besonders ausgesetzten Flussgebieten. Berlin, 1899 (?) 46 pp., 13 x 8, bds.
- 76 —Das Eisbrechwesen im deutschen Reich. M. Gürz and M. Buchheister. Berlin, 1900. 9 + 248 pp., il., pl., maps, 11 x 8, cl.
- 518 —Der Elbstrom, sein Stromgebiet und seine wichtigsten Nebenflüsse: Eine hydrographische, wasserwirtschaftliche und wasserrechtliche Darstellung; im Auftrage der deutschen Elbuferstaaten und unter Bethelligung des preussischen Wasser-Ausschusses herausgegeben. Germany-Königliche Elbstrombauverwaltung zu Magdeburg. Berlin, 1898. 5 v. in 6, 11 x 8 (tab. 14 x 10, atlas 20 x 17), cl.
- 519 —Der Oderstrom, sein Stromgebiet und seine wichtigsten Nebenflüsse: Eine hydrographische, wasserwirtschaftliche und wasserrechtliche Darstellung; auf Grund des Allerhöchsten Erlasses vom 28. Februar 1892 herausgegeben. Germany-Ausschuss zur Untersuchung der Wasserverhältnisse in den der Ueberschwemmungsgefahr besonders ausgesetzten Flussgebieten. Berlin, 1896. 5 v. in 7, 11 x 8 (tab. 14 x 10, atlas 20 x 17), cl.
- 517 —Der Rheinstrom und seine wichtigsten Nebenflüsse von den Quellen bis zum Austritt des Stromes aus dem deutschen Reich: Eine hydrographische, wasserwirtschaftliche und wasserrechtliche Darstellung mit vorzugsweise eingehender Behandlung des deutschen Stromgebietes; im Auftrag der Reichskommission zur Untersuchung der Rheinstromverhältnisse herausgegeben. Baden-Centralbureau für Meteorologie und Hydrographie. Berlin, 1889. 2 v., il., pl., maps, 15 x 11 (atlas 15 x 22), bds.
- 516 —Hydrologische Untersuchungen an der Weser, Elbe, dem Rhein und mehreren kleineren Flüssen, ihre Anwendungen auf die Praxis und Experimentaltheorie nebst speziellen Mittheilungen über neuere Instrumente. Johannes von Wagner. Braunschweig, 1881. 6 + 42 pp., il., pl., 13 x 10, cl.
- 782 —Weser und Ems, ihre Stromgebiete und ihre wichtigsten Nebenflüsse: Eine hydrographische, wasserwirtschaftliche und wasserrechtliche Darstellung; auf Grund des Allerhöchsten Erlasses vom 28. Februar 1892 herausgegeben von H. Keller. Preussischer Wasser-Ausschuss. Contents: v. 1, Stromgebiete und Gewässer. v. 2, Quell- und Nebenflüsse der Weser (ohne Aller). v. 3, Die Weser von Münden zu Geestemünde. v. 4, Die Aller und die Ems. v. 5, Tabellen und Anlagen. v. 6, Kartenbeilagen. Berlin, 1901. 6 v., maps, tab., 11 x 8 (tab. 13 x 11, atlas 30 x 17), cl.
- GODAVARI RIVER.** Note on the temporary ferry over the River Godavari at Rajahmundry. J. E. Eaglesome. 1901. (See Aa-110, No. 91.)
- 425 **GREAT KANAWHA RIVER.** Detail drawings for Dams Nos. 4 and 5, Kanawha River improvement. U. S.-Corps of Engineers. no place, no date. 6 pl., various sizes, pap. various scales.
- 197 —History of the Great Kanawha River slack water improvement; prefaced by a short sketch of the early navigation, before the lock and dam improvement. J. P. Hale. Charleston, W. Va., 1901. pp. 49-75, il., tab., 9 x 6, pap.
- 184 **HUDSON RIVER.** Upper Hudson storage surveys: Report of George W. Rafter, New York-State Engineer and Surveyor. Albany, 1896-97. 2 v., maps., pl., tab., 9 x 6, pap.
- HUGLI RIVER.** Hoogli River: Proposed deep-water approach to Calcutta. L. W. Bates. (International Cong. on Navigation, 8th.) 1900. (See Ca-8.48, p. 17.)
- HUNGARY.** L'état actuel des jaugeages en Hongrie. Samuel Hajós. 1900. (See Ca-92, Brochure 4.)
- Les travaux de régularisation et d'endiguement en Hongrie. Edmond de Kolossváry. 1900. (See Ca-92, Brochure 7.)
- Les voies navigables de la Hongrie. Béla de Gonda. 1900. (See Ca-81, p. 37.)
- Nivellements de haute précision de 1890 à 1895 de la Section Hydrographique de la Direction Nationale du Service des Eaux. Balthasar de Szilágyi. 1900. (See Ca-92, Brochure 3.)
- ILLINOIS.** Abstract of the proceedings of the Board of Commissioners of Public Works, Dec. Session, 1837. (See Ah-60.)
- 551 **JAMES RIVER.** Specifications, etc., for construction of railroad track, transfer slip, car and caisson, for James River, Va. U. S.-Corps of Engineers. Richmond, 1891. 8 pp., 14 x 8, pap. no title-page.
- KERN RIVER.** Physical characteristics of Kern River, Cal., by F. H. Olmsted; and Reconnaissance of Yuba River, Cal., by Marsden Manson. (U. S. Geological Survey. Water Supply and Irrigation Papers.) 1901. (See De-81, No. 46.)

Cb—(Continued).

- KOYUKUK RIVER.** Preliminary report on a reconnaissance along the Chandler and Koyukuk Rivers, Alaska, in 1899. F. C. Schrader. (U. S. Geological Survey.) 1901. (See Yh-40, Annual report, 1899-1900, Pt. 2, p. 441.)
- 535 **LINTH RIVER.** Tabellarische Zusammenstellung der Haupt-Ergebnisse der schweizerischen hydrometrischen Beobachtungen für das Jahr; 1886-90, '94. Switzerland-Hydrometrische Abteilung des eidgenössischen Oberbauinspektors. Berne, 1886-1901. 6 v., 14 x 10. pap.
- LOIRE RIVER.** Information on the training works of the Loire River. Antoine Robert. (International Cong. on Navigation, 8th.) 1900. (See Ca-8.4, p. 15.)
—La Loire. M. C. Lechallas. 1884. (See Cb-514, p. 157.)
- 536 —Recherches sur les rivières à marée. Paris, 1901. 2 v., il., 11 x 7 (atlas 12 x 9). pap.
- 421 **LOUISIANA.** Report of the Board of State Engineers; April, 1900-April, 1902. Baton Rouge, 1902. 1 v., pl., maps, 9 x 6, mor.
- 523 **LUMBER RIVER.** Annual report upon the improvement of Lumber and Waccamaw Rivers, North Carolina and South Carolina, and of certain rivers and harbors in South Carolina. U. S.-Corps of Engineers. Wash., 1892. 1 v., 9 x 6, pap.
- 501 **MEMEL RIVER.** Memel-, Pregel-, und Weichselstrom, ihre Stromgebiete und ihre wichtigsten Nebenflüsse: Eine hydrographische, wasserwirtschaftliche und wasserrechtliche Darstellung. H. Keller. Berlin, 1899. 6 v., maps, tab., 11 x 8 (maps 20 x 17, tab. 14 x 10), cl.
- MEUSE RIVER.** Influence of training works on the régime of the Meuse and the Lower Ourthe. Report. E. Jacquemin and E. Marote. (International Cong. on Navigation, 8th.) Paris, 1900. 13 pp., 2 pl., 11 x 7, pap. Ca 8.3.
- MEXICO.** Memoria presentada al Congreso de la Union por el Secretario de Estado y del Despacho de Fomento, Colonizacion, Industria y Comercio de la Republica Mexicana; 1877. Ministerio de Fomento. (See Na-119.)
- 17 **MISSISSIPPI RIVER.** Annual reports of the officers of the St. Francis Levee Board of Arkansas, for the year ending May 1st, 1901-02. Memphis, 1901-02. 2 v., pl., map, 9 x 6, pap.
- District map of the Lower Mississippi River. Mississippi River Commission. 1897. (See Qf-533.)
- 405 —Floods of the Mississippi River; by Park Morrill. U. S.-Weather Bureau. (Bulletin E.) Wash., 1897. 6 + 79 pp., il. pl., maps, 12 x 9, pap.
- Map of the alluvial valley of the Upper Mississippi River from the Falls of St. Anthony to the mouth of the Ohio River, showing lands subject to overflow, bluff lines defining the limit of the alluvial valley, location of levees and transvalley profiles. Mississippi River Commission. 1899. (See Qf-534.)
- Map of the Mississippi River; sheets 101-130. Mississippi River Commission. Note: Map of the Upper Mississippi. 1898-1900. (See Qf-532.)
- Memorial to the Forty-third Congress of the United States: A statement of the necessities of the people of the Mississippi Valley, in respect to the transportation of their products and the improvement of their natural channels of commerce. St. Louis Union Merchants' Exchange. St. Louis, 1874. 194 pp., maps, 9 x 6, b. p. Ah-78, p. 1.
- Mississippi River; some of its physical characteristics and measures employed for the regulation and control of the stream: Communication. J. A. Ocker-son. (International Cong. on Navigation, 8th.) Note: Text in English and French. Paris, 1900. 40 pp., 11 x 7, pap. Ca-8.44.
- 502 —Reclamation of the alluvial basin of the Mississippi River: Reports upon the specimens obtained from borings made in 1874 between the Mississippi River and Lake Borgne, at the site proposed for an outlet for flood waters; by Eugene W. Hilgard and F. V. Hopkins. U. S.-Commission of Engineers. Wash., 1878. 49 pp., il. pl., maps, tabs., 9 x 6, b. p.
- 502 —Report. U. S.-House Committee on Levees and Improvement of the Mississippi River. Note: Descriptive and statistical review of improvement work done on Mississippi River. no place, 1878. 12 pp., map, 9 x 6, b. p. no title-page.
- 502 —Report upon the reclamation of the alluvial basin of the Mississippi River; being Appendix O of the Annual report of the Chief of Engineers for 1875. U. S.-Commission of Engineers. Wash., 1875. 146 pp., il., pl., maps, 9 x 6, b. p.
- 500 —Specifications, etc., for furnishing steel pontoons and discharge pipes. Mississippi River Commission. no place, 1901. 18 pp., 14 x 9, pap. no title-page.
- 156 —Stages of the Mississippi River and of its principal tributaries; 1900-01. Mississippi River Commission. St. Louis, 1901-02. 2 v., 9 x 6, pap.
- Survey of the Mississippi River; charts 101-186. Mississippi River Commission. Note: Detail map of the Upper Mississippi. no date. (See Qf-531.)
- NETHERLANDS.** Influence of river improvements on inundations in the Netherlands: Report. R. P. J. Tutein-Nothenius. (International Cong. on Navigation, 8th.) Paris, 1900. 11 pp., map., 11 x 7, pap. Ca-8.5.

Cb—(Continued).

- NEW JERSEY.** Annual report of the Riparian Commissioners; with accompanying documents; 1878-79, '87, '94-95. (See Ca-39.)
- NEW YORK STATE.** Report of the State Engineer and Surveyor on the gauging of the volume of discharge of streams in the State of New York. 1900-01. (See Cfh-25, Annual report.)
- NICARAGUA.** Hydrography of Nicaragua. A. P. Davis. (U. S. Geological Survey.) 1900. (See Yh-40, Annual report, 1898-99, Pt. 4, p: 563.)
- NIEMEN RIVER.** See Memel River.
- NILE RIVER.** Nile reservoir dam at Assuán, and after. William Willcocks. 1901. (See De-142.)
- NORTH CAROLINA.** Hydrography of the Southern Appalachian Mountain Region. H. A. Pressey. (U. S. Geological Survey. Water Supply and Irrigation Papers.) 1902. (See De-81, Nos. 62-63.)
- Papers on the water power in North Carolina: A preliminary report. G. F. Swain, J. A. Holmes and E. W. Myers. 1899. (See Yh-106, Bulletin No. 8.)
- 519 **ODER RIVER.** Der Oderstrom, sein Stromgebiet und seine wichtigsten Nebenflüsse: Eine hydrographische, wasserwirtschaftliche und wasserrechtliche Darstellung; auf Grund des Allerhöchsten Erlasses vom 28. Februar 1892 herausgegeben. Germany-Ausschuss zur Untersuchung der Wasserverhältnisse in den der Ueberschwemmungsgefahr besonders ausgesetzten Flussgebieten. Berlin, 1896. 5 v. in 7, 11 x 8 (tab. 14 x 10, atlas 20 x 17), cl.
- OHIO.** Report of an investigation of the rivers of Ohio as sources of public water supplies; by the State Board of Health; 1st-4th; 1898-1901. (See Db-52.)
- OHIO RIVER.** Annual statements of the height of water in the Ohio River; 1872, '85, '87-1901. Cincinnati-Water Department. (See De-225.)
- Glacial formations and drainage features of the Erie and Ohio Basins. Frank Leverett. (U. S. Geological Survey. Monographs, v. 41.) 1902. (See Yh-41.)
- Proceedings, annual convention of the Ohio Valley Association; 1900. (See Sa3-179.2.)
- 556 —Specifications, etc., for water tanks for Davis Island Dam. U. S.-Corps of Engineers. Cin., 1884. 3 pp., 14 x 8, pap. no title-page.
- OURTHE RIVER.** Influence of training works on the régime of the Meuse and the Lower Ourthe: Report. E. Jacquemin and E. Marote. (International Cong. on Navigation, 8th.) Paris, 1900. 13 pp., 2 pl., 11 x 7, pap. Ca-5.3.
- PARANA RIVER.** Concurso para la construcción y explotación de un puerto comercial en la Ciudad del Rosario: Documentos preliminares. Argentine Republic-Ministerio de Obras Públicas. 1900. (See Cc-497.)
- 550 **POTOMAC RIVER.** Specifications, etc., for the construction of reservoir outlet and wing walls for reclaiming Potomac Flats. U. S.-Corps of Engineers. Wash., 1886-87. 2 v., 14 x 8, pap. no title-page.
- 501 **PREGEL RIVER.** Memel-, Pregel-, und Weichselstrom, ihre Stromgebiete und ihre wichtigsten Nebenflüsse: Eine hydrographische, wasserwirtschaftliche und wasserrechtliche Darstellung. H. Kellier. Berlin, 1899. 6 v., maps, tab., 11 x 8 (maps 20 x 17, tab. 14 x 10), cl.
- 535 **REUSS RIVER.** Tabellarische Zusammenstellung der Haupt-Ergebnisse der schweizerischen hydrometrischen Beobachtungen für das Jahr; 1886-90, '94. Switzerland-Hydrometrische Abteilung des eidgenössischen Oberbauinspektorates. Berne, 1886-1901. 6 v., 14 x 10, pap.
- 517 **RHINE RIVER.** Der Rheinstrom und seine wichtigsten Nebenflüsse von den Quellen bis zum Austritt des Stromes aus dem deutschen Reich: Eine hydrographische, wasserwirtschaftliche und wasserrechtliche Darstellung mit vorzugsweise eingehender Behandlung des deutschen Stromgebietes; im Auftrag der Reichskommission zur Untersuchung der Rheinstromverhältnisse herausgegeben. Baden-Centralbureau für Meteorologie und Hydrographie. Berlin, 1889. 2 v., il., pl., maps, 15 x 11 (atlas 15 x 22), bds.
- 112 —Die Arbeiten der Rheinstrom-Bauverwaltung, 1850-1900: Denkschrift anlässlich des 50 jährigen Bestehens der Rheinstrombauverwaltung, und Bericht über die Verwendung der seit 1880 zur Regulierung des Rheinstroms bewilligten ausserordentlichen Geldmittel. R. Jasmund. no place, no date. 11 + 242 pp., il., 12 x 9, cl.
- Hydrometrische Arbeiten am Rhein. Johannes von Wagner. 1881. (See Ch-516, p. 22.)
- 533 —Rheingebiete von den Quellen zur Taminamündung. Switzerland-Hydrometrische Abteilung des eidgenössischen Oberbauinspektorates. (Wasser- verhältnisse der Schweiz.) (Contents: v. 1, Die Flächeninhalte der Einzugsgebiete, etc. v. 2, Die Pegelstationen. v. 3, Profils en long. Berne, 1896-1901. 3 v. in 2, pl., maps, 14 x 10, pap.
- 535 —Tabellarische Zusammenstellung der Haupt-Ergebnisse der schweizerischen hydrometrischen Beobachtungen für das Jahr; 1886-90, '94. Switzerland-Hydrometrische Abteilung des eidgenössischen Oberbauinspektorates. Berne, 1886-1901. 6 v., 14 x 10, pap.

Cb - (Continued).

- RHONE RIVER.** Le Rhône. M. C. Lechalias. 1884. (See Cb-514, p. 225.)
 —Notes on towing on the Rhône: Report. Lombard-Gerin. (International Cong. on Navigation, 8th.) Paris, 1900. 12 pp., 2 pl., 11 x 7, pap. Ca-8.18.
- 534 —Rhonegebiete von den Quellen bis zum Genfer-See. Switzerland-Hydrometrische Abteilung des eidgenössischen Oberbauinspektorates. (Wasserverhältnisse der Schweiz.) Contents: v. 1, Die Flächeninhalte der Einzugsgebiete, etc. v. 2, Die Pegelstationen. Bern, 1898. 2 v. in 1, pl., maps, 14 x 10, pap.
- 535 —Tabellarische Zusammenstellung der Haupt-Ergebnisse der schweizerischen hydrometrischen Beobachtungen für das Jahr; 1886-90, '94. Switzerland-Hydrometrische Abteilung des eidgenössischen Oberbauinspektorates. Berne, 1886-1901. 6 v., 14 x 10, pap.
- ST. LAWRENCE RIVER.** Profile of the St. Lawrence River and Canals. Canada-Deep Waterways Commission. 1896. (See Qf-228.)
- SAN JUAN RIVER.** Memoria; 1885-86. Nicaragua-Ministerio de Fomento. Note: Contains report on the proposed improvement of the San Juan River and Harbor. no date. (See A1-39.)
- SAVANNAH RIVER.** Annual report; to which is added the Treasurer's report and reports of the different departments; 1882-88, '95. Savannah-Mayor. (See Os82-2.1.)
- SCARPE RIVER.** Excursion à Douai le dimanche 29 juillet 1900: Dérivation de la Scarpe autour de Douai et traction électrique des bateaux. International Congress on Navigation, 8th. Arras, 1900. 16 pp., maps, 10 x 6, pap. Ca-8.53.
- SCHELDE RIVER.** Influence of the training works of the Scheldt on the régime of that river: Report. L. Grenier. (International Cong. on Navigation, 8th.) Paris, 1900. 21 pp., 3 pl., tab., 11 x 7, pap. Ca-8.2.
- SEINE RIVER.** Excursion du 29 juillet entre Vernon et Rouen: La Basse-Seine; la retenue de Foses, son installations électrique. International Congress on Navigation, 8th. Paris, 1900. 13 pp., 2 pl., map, 11 x 7, pap. Ca-8.52.
 —La Seine. M. C. Lechalias. 1884. (See Cb-514, p. 275.)
- 513 —Manuel hydrologique du bassin de la Seine; sous la direction de M. Ch. Lefébure de Fourcy et de M. G. Lemoine. A. de Préaudeau. Note: Contains bibliography on the hydrology of the Seine. Paris, 1884. 120 pp., pl., map, 11 x 9, ¼ mor.
 —Recent works on the Lower Seine. L. F. Vernon-Harcourt. 1901. (See Ca-74, p. 8.)
- 536 —Recherches sur les rivières à marée. Paris, 1901. 2 v., il., 11 x 7 (atlas 12 x 9), pap.
- SOUTH CAROLINA.** Hydrography of the Southern Appalachian Mountain Region. H. A. Pressey. (U. S. Geological Survey. Water Supply and Irrigation Papers.) 1902. (See De-81, Nos. 62-63.)
- STONY BROOK, MASS.** Tables of flow of Stony Brook, comparisons of yield, etc. R. F. Burton and C. W. Sherman. 1898. (See Dd-39, Appendix B.)
- 781 **SWITZERLAND.** Graphische Darstellungen der schweizerischen hydrometrischen Beobachtungen und der Luft-Temperaturen und Niederschlags-Höhen; 1900. Switzerland-Hydrometrische Abteilung des eidgenössischen Oberbauinspektorates. Bern, 1902. 1 v., tab., 15 x 10, pap.
- 535 —Tabellarische Zusammenstellung der Haupt-Ergebnisse der schweizerischen hydrometrischen Beobachtungen für das Jahr; 1886-90, '94. Switzerland-Hydrometrische Abteilung des eidgenössischen Oberbauinspektorates. Berne, 1886-1901. 6 v., 14 x 10, pap.
- TEESTA RIVER.** Training works for a bridge over the Teesta River, Eastern Bengal State Ry. G. Moyle. 1902. (See Aa-110, No. 105.)
- TENNESSEE.** Hydrography of the Southern Appalachian Mountain Region. H. A. Pressey. (U. S. Geological Survey. Water Supply and Irrigation Papers.) 1902. (See De-81, Nos. 62-63.)
- 535 **TICINO RIVER.** Tabellarische Zusammenstellung der Haupt-Ergebnisse der schweizerischen hydrometrischen Beobachtungen für das Jahr 1886-90, '94. Switzerland-Hydrometrische Abteilung des eidgenössischen Oberbauinspektorates. Berne, 1886-1901. 6 v., 14 x 10, pap.
- TISZA RIVER.** Les travaux de régularisation et d'endiguement en Hongrie. Edmond de Kolossváry. 1900. (See Ca-92, Brochure 7.)
- UNITED STATES.** Annual report of the Chief of Engineers to the Secretary of War for the fiscal year ending June 30th, 1900-01. (See Cc-93.)
- 768 —Daily river stages at river gauge stations on the principal rivers of the United States; 1893-95. Weather Bureau. Wash., 1896. 1 v., 10 x 9, ¼ sh.
 —Operations at river stations; 1899-1901: A report of the Division of Hydrography. (U. S. Geological Survey. Water Supply and Irrigation Papers.) 1900-01. (See De-81, Nos. 35-39, 47-52.)
 —Profiles of rivers in the United States. Henry Gannett. (U. S. Geological Survey. Water Supply and Irrigation Papers.) 1901. (See De-81, No. 44.)

Cb—(*Continued*).

- 532 —Report of proceedings of the National Rivers and Harbors Congress; 1901. Balt., 1901. 1 v., 9 x 6, pap.
- Report of progress of stream measurements in the United States; 1897-99. (See Yh-40, Annual reports of the U. S. Geological Survey.)
- Report of the Board of Engineers on Deep Waterways. 1900. (See Cd-35.)
- 538 —Specifications, etc., for dredging and removing obstructions from rivers. Corps of Engineers. various places, 189-. 670 v., 14 x 8, pap. no title page.
- 532 —Specifications, etc., for driving piles in rivers. Corps of Engineers. Sioux City, 189-. 2 v., 14 x 8, pap. no title-page.
- 553 —Specifications, etc., for furnishing brush, poles, etc., for various kinds of work in rivers. Corps of Engineers. various places, 189-. 19 v., 14 x 8, pap. no title-page.
- 559 —Specifications, etc., for furnishing piles for various kinds of work in rivers. Corps of Engineers. various places, 189-. 15 v., 14 x 8, pap. no title-page.
- 551 —Specifications, etc., for furnishing pine logs, lumber, timber, etc., for various kinds of work in rivers. Corps of Engineers. various places, 189-. 25 v., 14 x 8, pap. no title-page.
- 560 —Specifications, etc., for furnishing ratline, rope, etc., for various kinds of work in rivers. Corps of Engineers. Balt., 1883-86. 2 v., 14 x 8, pap. no title-page.
- 555 —Specifications, etc., for furnishing sand, stone, rock, gravel, etc., for various kinds of work in rivers. Corps of Engineers. various places, 189-. 78 v., 14 x 8, pap. no title-page.
- 540 —Specifications, etc., for the construction and repair of dams. Corps of Engineers. various places, 189-. 139 v., 14 x 8, pap. no title-page.
- 544 —Specifications, etc., for the construction and repair of locks and lock gates in rivers and furnishing iron work and machinery for same. Corps of Engineers. various places, 189-. 49 v., 14 x 8, pap. no title-page.
- 547 —Specifications, etc., for the construction and repair of wharves in rivers. Corps of Engineers. various places, 1884-92. 3 v., 14 x 8, pap. no title-page.
- 548 —Specifications, etc., for the construction, enlargement and repair of levees in rivers. Corps of Engineers. various places, 189-. 52 v., 14 x 8, pap. no title-page.
- 539 —Specifications, etc., for the construction, extension and repair of breakwaters in rivers. Corps of Engineers. various places, 189-. 8 v., 14 x 8, pap. no title-page.
- 541 —Specifications, etc., for the construction, extension and repair of dikes in rivers. Corps of Engineers. various places, 189-. 86 v., 14 x 8, pap. no title-page.
- 542 —Specifications, etc., for the construction, extension and repair of jetties in rivers. Corps of Engineers. various places, 189-. 33 v., 14 x 8, pap. no title-page.
- 545 —Specifications, etc., for the construction, extension and repair of piers in rivers. Corps of Engineers. various places, 189-. 16 v., 14 x 8, pap. no title-page.
- 546 —Specifications, etc., for the construction of cribs, etc., in rivers. Corps of Engineers. Balt., 1886. 6 pp., 14 x 8, pap. no title-page.
- 549 —Specifications, etc., for the construction of fishways in rivers. Corps of Engineers. Wash., 1885-92. 3 v., 14 x 8, pap. no title-page.
- 548 —Specifications, etc., for the construction of ice breakers in rivers. Corps of Engineers. Cin., 1896. 8 pp., 14 x 8, pap. no title-page.
- 557 —Specifications, etc., for the construction of training walls, revetments, bulkheads, etc., in rivers. Corps of Engineers. various places, 189-. 24 v., 14 x 8, pap. no title-page.
- 554 —Specifications, etc., for the removal of wrecks from rivers. Corps of Engineers. various places, 189-. 64 v., 14 x 8, pap. no title-page.
- United States public works, containing a summary of the methods of construction and character of materials and plant used in the public works under the charge of the War and Treasury Departments. W. M. Black. 1895. (See V-128.)
- VICTORIA.** River gaugings; 1889, '91, '95, 1900. Mines and Water Supply Department. (See De-45.)
- VIRGINIA.** Hydrography of the Southern Appalachian Mountain Region. H. A. Pressey. (U. S. Geological Survey. Water Supply and Irrigation Papers.) 1902. (See De-81, Nos. 62-63.)
- 501 **VISTULA RIVER.** Memel, Pregel, und Weichselstrom, ihre Stromgebiete und ihre wichtigsten Nebenflüsse: Eine hydrographische, wasserwirtschaftliche und wasserrechtliche Darstellung. H. Keller. Berlin, 1899. 3 v., maps, tab., 11 x 8 (maps 20 x 17, tab. 14 x 10), cl.

Cb—(Continued).

- 528 **WACCAMAW RIVER.** Annual report upon the improvement of Lumber and Waccamaw Rivers, North Carolina and South Carolina, and of certain rivers and harbors in South Carolina. U. S.-Corps of Engineers. Wash., 1892. 1 v., 9 x 6, pap.
- WARTHE RIVER.** Die Warthe und ihre wichtigsten Nebenflüsse. Germany-Ausschuss zur Untersuchung der Wasserverhältnisse in den der Ueberschwemmungsgefahr besonders ausgesetzten Flussgebieten. 1896. (See Cb-519, v. 3, Pt. 3.)
- 170 **WESER RIVER.** Beantwortung der im Allerhöchsten Erlasse vom 28. Februar 1892 gestellten Frage B: "Welche Massregeln können angewendet werden, um für die Zukunft der Hochwassergefahr und den Ueberschwemmungsschäden soweit wie möglich vorzubeugen?" für das Weser und Emsstromgebiet. Germany-Ausschuss zur Untersuchung der Wasserverhältnisse in den der Ueberschwemmungsgefahr besonders ausgesetzten Flussgebieten. Berlin, 1902. various pagings, map, 13 x 8, bds.
- Hydrometrische Arbeiten an der Weser. Johannes von Wagner. 1881. (See Cb-516, p. 15.)
- 782 —Weser und Ems, ihre Stromgebiete und ihre wichtigsten Nebenflüsse: Eine hydrographische, wasserwirthschaftliche und wasserrechtliche Darstellung; auf Grund des Allerhöchsten Erlasses vom 28. Februar 1892 herausgegeben von H. Keller. Germany-Preussischer Wasser-Ausschuss. Contents: v. 1, Stromgebiete und Gewässer. v. 2, Quell- und Nebenflüsse der Weser (ohne Aller). v. 3, Die Weser von Münden zu Geestmünde. v. 4, Die Aller und die Ems. v. 5, Tabellen und Anlagen. v. 6, Kartenbeilagen. Berlin, 1901. 6 v., maps, tab., 11 x 8 (tab., 13 x 11, atlas 20 x 17), cl.
- YUBA RIVER.** Reconnaissance of Yuba River, Cal. Marsden Manson. 1901. (See De-81, No. 46, p. 39.)

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Cc

- 483 **ADMIRALTY HEAD HARBOR.** Specifications, etc., for constructing light house station at Admiralty Head, Wash. U. S.-Corps of Engineers. Seattle, 1900-01. 2 v., 13 x 8, pap. no title-page.
- ALBANY HARBOR.** Report on the Albany Basin. New York-State Board of Health. 1894. (See Ee-93.)
- ALGERIA.** Note sur les travaux exécutés dans quelques ports de la Méditerranée: Rapport. Baron E. T. Quinette de Rochemont. (International Cong. on Navigation, 8th.) Paris, 1900. 16 pp., 2 pl., 11 x 7, pap. Ca-8.85.
- ANTWERP HARBOR.** Le Port d'Anvers. G. Royers. 1900. (See Cc-38, p. 17.)
- 488 **ARGENTINE REPUBLIC.** Los nuevos faros de la República Argentina: Memoria presentada al Segundo Congreso Científico Latino-Americano celebrado en Montevideo. Luigi Luiggi. Buenos Aires, 1901. 38 pp., pl., tab., 9 x 6, pap.
- 35 **BALTIMORE HARBOR.** Annual report of the Harbor Board to the Mayor and City Council; 1880-82, '87, '98-1901. Note: For annual reports, 1890-91, '95-97, see Ob5-3.1. Balt., 1881-1902. 7 v., 9 x 6, pap.
- BARCELONA HARBOR.** Puerto de Barcelona y mejoras posibles en el mismo. Julio Valdés. 1890. (See Ya-27, p. 281.)
- Travaux récents effectués dans les Ports de Barcelone et de Bilbao: Rapport. P. G. Faria. (International Cong. on Navigation, 8th.) Paris, 1900. 25 pp., 3 pl., 11 x 7, pap. Ca-8.33.
- 38 **BELGIUM.** Les installations maritimes belges. Note: Notices on the plans and models exhibited by the Belgian Government at the International Exhibition of Paris, 1900. Bruxelles, 1900. 105 pp., il., 9 x 6, pap.
- BILBAO HARBOR.** Travaux récents effectués dans les Ports de Barcelone et de Bilbao: Rapport. P. G. Faria. (International Cong. on Navigation, 8th.) Paris, 1900. 25 pp., 3 pl., 11 x 7, pap. Ca-8.33.
- BREMEN HARBOR.** On the adaptation of harbours to the requirements of modern mercantile shipping: Report. Ludwig Franzius. (International Cong. on Navigation, 8th.) Paris, 1900. 7 pp., 2 pl., 11 x 7, pap. Ca-8.38.
- BREMERHAFFEN.** On the adaptation of harbours to the requirements of modern mercantile shipping: Report. Ludwig Franzius. (International Cong. on Navigation, 8th.) Paris, 1900. 7 pp., 2 pl., 11 x 7, pap. Ca-8.38.
- 485 **BUENOS AIRES HARBOR.** Informe sobre los canales de acceso al Puerto Madero. E. L. Corthell. Buenos Aires, 1900. 55 pp., 9 x 6, pap.
- CANADA.** Les ports canadiens. Baron E. T. Quinette de Rochemont and H. Vétillart. 1898. (See Cc-384, Pt. 1.)
- CETTE HARBOR, FRANCE.** Port de Cette. Salva, 1894. (See Cc-150, v. 7, Pt. 1, Sec. 1, p. 147.)
- CHICAGO HARBOR.** Annual report of the Department of Public Works; 1900-01. (See Oc35-2.1.)

Cc—(Continued).

- CORSICA.** Note sur les travaux exécutés dans quelques ports de la Méditerranée: Rapport. *Baron E. T. Quinette de Rochemont.* (International Cong. on Navigation, 8th.) Paris, 1900. 16 pp., 2 pl., 11 x 7, pap. Ca-8.85.
- 487 **DUNKIRK HARBOR, FRANCE.** Dunkerque; son port, son commerce: Notice. Dunkerque Chambre de Commerce. (Exposition Universelle de 1900.) Dunkerque, 1900. 89 pp., pl., tab., 10 x 6, pap.
- 971 **EMDEN HARBOR.** Festschrift zur Eröffnung des neuen Emdrer Seehafens durch seine Majestät den Kaiser und König Wilhelm II. im August 1901: Im Auftrage des königlichen Staatsministers und Ministers der Öffentlichen Arbeiten Herrn von Thienen bearbeitet von C. Schweckendieck. Germany—Ministerium der Öffentlichen Arbeiten. Berlin, 1901. 8 + 80 + 34 pp., il., pl., maps, 14 x 11, cl.
- FRANCE.** Most recent progress of lighthouses and beacons: Report. C. Ribière. (International Cong. on Navigation, 8th.) Paris, 1900. 37 pp., il., 10 pl., 11 x 7, pap. Ca-8.27.
- Most recent works at the principal French ports on the North Sea, the Channel and the Ocean: Report. Barbé. (International Cong. on Navigation, 8th.) Paris, 1900. 15 pp., 2 pl., 11 x 7, pap. Ca-8.34.
- Note sur les travaux exécutés dans quelques ports de la Méditerranée: Rapport. *Baron E. T. Quinette de Rochemont.* (International Cong. on Navigation, 8th.) Paris, 1900. 16 pp., 2 pl., 11 x 7, pap. Ca-8.35.
- Notices sur les appareils d'éclairage modèles et dessins exposés par le Service des Phares. Ministère des Travaux Publics. (Exposition Universelle en 1900.) 1900. (See Yf-168.)
- 150 —Ports maritimes de la France; v. 7. Ministère des Travaux Publics. Contents: Pt. 1, Sec. 1, De Banyuls à Aigues-Mortes. Sec. 2, D'Arles à Carri-le-Rouet. Pt. 2, Sec. 1, Marseille. Sec. 2, Du Frioul à Menton. Paris, 1894-99. 1 v. in 4, il., pl., maps, tab., 11 x 7, pap.
- 490 —Progrès les plus récents de l'éclairage et du balisage des côtes. Ribière. Paris, 1902. 55 pp., il. pl., tab., 10 x 6, pap.
- GENERAL.**
- AMERICAN SOCIETY OF CIVIL ENGINEERS.** Memoir upon rivers and harbors; by Theo. G. Ellis, Chairman of the Centennial Commission of the American Society of Civil Engineers, and Sub-Committee on Rivers and Harbors. 1876. (See Sa3-1.14.)
- CORTHELL, E. L.** Les ports du monde; leurs conditions de navigabilité et leurs installations dans le présent et dans l'avenir: Rapport. (International Cong. on navigation, 8th.) Paris, 1900. 18 pp., tab., 11 x 7, pap. Ca-8.39.
- Report by E. L. Corthell, Delegate of the United States to the Seventh International Congress of Navigation, held at Brussels, Belgium, July, 1898. (56th Cong., 1st Sess. Senate doc. No. 30.) Wash., 1900. 245 pp., pl., maps, 9 x 6, cl. Ca-7.6.
- DELACHANAL, E.** Improvements in mechanical appliances for the working plant of ports: Report. (International Cong. on Navigation, 8th.) Paris, 1900. 17 pp., 3 pl., 11 x 7, pap. Ca-8.41.
- FRANZIUS, LUDWIG.** On the adaptation of harbours to the requirements of modern mercantile shipping: Report. (International Cong. on Navigation, 8th.) Paris, 1900. 7 pp., 2 pl., 11 x 7, pap. Ca-8.38.
- FRANZIUS, LUDWIG, G. FRANZIUS, and G. DE THIERRY.** Seehäfen. 1901. (See V-120, v. 3, pt. 3, p. 347.)
- 489 **HAUPT, L. M.** Haupt system for removing ocean bars. no place, 1901. 15 pp., il., 7 x 6, pap.
- LEGER, ALFRED.** Les travaux publics, les mines et la métallurgie aux temps des Romains; la tradition romaine jusqu'à nos jours. 1875. (See Ca-84.)
- 115a **QUINETTE DE ROCHEMONT, BARON E. T., and HENRY DESPREZ.** Cours de travaux maritimes, professé à l'École Nationale des Ponts et Chaussées. Paris, 1900-01. 3 v., il., maps, 11 x 8, cl.
- VERNON-HARCOURT, L. F.** Dock works and maritime engineering. 1902. (See V-124, p. 437.)
- VETILLART, H.** Transformation du matériel et des procédés de la marine marchande: Rapport. (International Cong. on Navigation, th.) Paris, 1900. 46 pp., 11 x 7, pap. Ca-8.40.
- GENOA HARBOR, ITALY.** Notice on the most important works executed in the Port of Genoa. P. Giaccone. (International Cong. on Navigation, 8th.) 1900. (See Ca-8.36, p. 1.)
- 753 —Provvedimenti economici ed amministrativi che possono concorrere a facilitare l'esecuzione e l'esercizio di opere d'interesse precipuamente commerciale nei principali porti del Regno, e in particolare nel porto di Genova; studio preparato e presentato alla commissione d'ordine di S. E. il Ministro dei Lavori Pubblici. Luigi Luiggi. Roma, 1895. 143 pp., tab., 11 x 8, cl.

Cc—(Continued).

- GERMANY.** Das Eisbrechwesen im deutschen Reich. M. Görz and M. Buchheister. 1900. (See Cb-76.)
- Enlargements and improvements in the principal German ports during the last few years: Report. H. W. Schultz. (International Cong. on Navigation, 8th.) Paris, 1900. 14 pp., 11 x 7, pap. Ca-8.28.
- Progrès du service des phares en Allemagne: Rapport. W. Körte and Truhlsen. (International Cong. on Navigation, 8th.) Paris, 1900. 25 pp., pl., 11 x 7, pap. Ca-8.25.
- GLASGOW HARBOR.** La Clyde et le Port de Glasgow. W. M. Alston. 1902. (See Ca-79, p. 31.)
- GREAT BRITAIN.** Most recent works at some of the principal British seaports and harbors: Report. L. F. Vernon-Harcourt. (International Cong. on Navigation, 8th.) Paris, 1900. 27 pp., 2 pl., 11 x 7, pap. Ca-8.30.
- The sea-coast; destruction, littoral drift, protection. W. H. Wheeler. 1902. (See Ce-42.)
- HAVRE HARBOR.** Harbor works at Havre and at Zeebrugge. L. F. Vernon-Harcourt. 1901. (See Ca-74, p. 19.)
- Le Port du Havre. H. Vétillart. (International Cong. on Navigation, 8th.) Havre, 1900. 18 pp., map, 10 x 7, pap. Ca-8.51.
- HUNGARY.** Quais, ports, refuges d'hiver. Béla de Gonda. 1900. (See Ca-81, p. 100.)
- ITALY.** Notice on the most important works executed in some Italian ports: Report. P. Giaccione. (International Cong. on Navigation, 8th.) Paris, 1900. 10 pp., 11 x 7, pap. Ca-8.36.
- 753 —Provvedimenti economici ed amministrativi che possono concorrere a facilitare l'esecuzione e l'esercizio di opere d'interesse precipuamente commerciale nei principali porti del Regno, e in particolare nel porto di Genova; studio preparato e presentato alla commissione d'ordine di S. E. il Ministro dei Lavori Pubblici. Luigi Luiggi. Roma, 1895. 143 pp., tab., 11 x 8, cl.
- Relazione sull'andamento dei servizi; July, 1898-Dec., '99. Ministero dei Lavori Pubblici. (See Ai-95.)
- LIVERPOOL HARBOR.** Travaux récemment exécutés et en projet au Port de Liverpool: Rapport. A. G. Lyster. (International Cong. on Navigation, 8th.) Paris, 1900. 11 pp., 2 pl., tab., 11 x 7, pap. Ca-8.29.
- 1291 **LONDON, ENGLAND.** Scientific, historical and commercial survey of the Harbour and Port of London, containing accounts of its history, privileges, functions and government; its extent, divisions and jurisdictions; tidal and other scientific observations, etc. James Elmes. Lond., 1838. 70 pp., il., 22 pl., 21 x 15, bds.
- MANCHESTER HARBOR, ENGLAND.** Port of Manchester, with plans of the ship canal and the ship canal docks. 1897 (?) (See Cfb-165.)
- 484 **MANZANILLO HARBOR.** Informe preliminar y memoria descriptiva relativos al mejoramiento del Puerto de Manzanillo en la Costa del Pacifico; con el contrato para la ejecucion de las obras y sus reformas. E. K. Smoot. Mexico, 1900. 80 pp., 10 x 6, pap.
- 386 **MARQUETTE HARBOR.** Breakwater at Presque-Isle Point, Marquette, Mich. U. S.-Corps of Engineers. no place, 1896. 2 sheets, 19 x 32, pap. scale, 6 ft. to 1 in.
- MARSEILLES HARBOR.** Port de Marseille. Bernard. 1899. (See Cc-150, v. 7, Pt. 2, Sec. 1, p. 1.)
- 4 **MASSACHUSETTS.** Annual report of the Harbor and Land Commissioners; 1900-01. Bost., 1901-02. 2 v., 9 x 6, cl.
- MEXICO.** Memoria presentada al Congreso de la Union por el Secretario de Estado y del Despacho de Fomento, Colonizacion, Industria y Comercio de la República Mexicana; 1877. Ministerio de Fomento. (See Na-119.)
- 21 **MONTREAL HARBOR.** Annual report of the Harbor Commissioners; 1899. Montreal, 1900. 1 v., 9 x 6, pap.
- NEW BEDFORD HARBOR.** Annual report to the City Council by the City Land Surveyor; 1895-96, '99-1900. (See On15-3.1.)
- NEW JERSEY.** Annual report of the Riparian Commissioners; with accompanying documents; 1878-79, '87, '94-95. (See Ca-39.)
- 390 **NEW YORK HARBOR.** Annual report of the Department of Docks; 11th, 18th, 19th-21st, 26th-30th; 1881, '83, '89-91, '96-1900. N. Y., 1881-1900. 11 v., pl., maps, 9 x 6, cl.
- Decline of the commerce of the Port of New York. R. P. Morgan. 1901. (See Zd-81.)
- 491 —Report. New Jersey-Special Joint Committee on Extension of Shore Front in New York Bay. Trenton, 1899. 83 pp., 9 x 6, pap.
- 284 **NORTH AMERICA.** Les ports maritimes de l'Amérique du Nord sur l'Atlantique, Pt. 1-2. Baron E. T. Quinette de Rochemont and H. Vétillart. Contents: Pt. 1, Les ports canadiens; Pt. 2, Régime administratif. Paris, 1898. 3 v., il., pl., maps, tab., 9 x 6 (pl. 21 x 15), pap.

Cc—(Continued).

- OSTEND HARBOR.** Travaux exécutés récemment et en cours d'exécution à l'atterrage et au Port d'Ostende: Rapport. Van der Schueren. (International Cong. on Navigation, 8th.) Paris, 1900. 28 pp., il., 5 pl., 11 x 7, pap. Ca-8. 82.
- 2 **PONTA DELGADA HARBOR.** Notice sur le Port de Ponta Delgada, Archipel des Açores, Ile de Saint-Michel. Diniz Moreira da Motta. (Exposition Universelle de 1900, Groupe 6, Classe 22, Sec. Portugaise.) Lisbonne, 1900. 37 pp., 9 x 6, pap.
- PORTUGAL.** Travaux les plus récents exécutés dans les principaux ports littoraux ou maritimes du Portugal: Rapport. J. V. M. Guerreiro. (International Cong. on Navigation, 8th.) Paris, 1900. 12 pp., il., 8 pl., 11 x 7, pap. Ca-8. 37.
- 497 **ROSARIO HARBOR.** Concurso para la construcción y explotación de un puerto comercial en la Ciudad del Rosario: Documentos preliminares. Argentine Republic—Ministerio de Obras Públicas. Buenos Aires, 1900. 12 v., pl., tab., 10 x 7, pap.
- RUSSIA.** Exposition Universelle de 1900: Notice sur les voies navigables, les chaussées et les ports de commerce de la Russie, par N. Vosnessensky: Catalogue des objets exposés par la Direction des Voies Navigables des Chaussées et des Ports de Commerce. (Ministère des Voies de Communication.) 1900. (See Yf-169.)
- SAINT-LOUIS-DU-RHONE HARBOR.** Port de Saint-Louis-du-Rhône. Guérard. 1897. (See Cc-150, v. 7, Pt. 1, Sec. 1, p. 407.)
- SAN JUAN HARBOR.** Memoria; 1885-86. Nicaragua—Ministerio de Fomento. Note: Contains report on the proposed improvement of the San Juan River and Harbor. (See A1-89.)
- SAVANNAH HARBOR.** Annual report; to which is added the Treasurer's report and reports of the different departments; 1882-98, '95. Savannah-Mayor. (See Os62-2. 1.)
- SOUTH AUSTRALIA.** Report from the Department of Public Works on harbors; 1887-89, '91, '96. (See Dc-956.)
- SOUTH CAROLINA.** Annual report upon the improvement of Lumber and Waccamaw Rivers, North Carolina and South Carolina, and of certain rivers and harbors in South Carolina. U. S.—Corps of Engineers. 1892. (See Cb-523.)
- 486 **TAMPICO HARBOR.** Epitome of lecture delivered in the First Methodist Episcopal Church, Buenos Aires, April 22d, 1901: Mexico, Tableland to Gulf, cañons, waterfalls, railroads, Pánuco River, harbor works. E. L. Corthell. Buenos Aires, 1901. 18 pp., 6 x 4, pap.
- TOULON HARBOR.** Ports de la rade de Toulon. Dyrion. 1899. (See Cc-150, v. 7, Pt. 2, Sec. 2, p. 701.)
- TUNIS.** Note sur les travaux exécutés dans quelques ports de la Méditerranée: Rapport. Baron E. T. Quinette de Rochemont. (International Cong. on Navigation, 8th.) Paris, 1900. 16 pp., 2 pl., 11 x 7, pap. Ca-8. 35.
- TYBEE ISLAND.** Specifications, etc., for wharf and railway on Tybee Island, Ga. U. S.—Corps of Engineers. 1896. (See Ac-97.)
- 98 **UNITED STATES.** Annual report of the Chief of Engineers to the Secretary of War for the fiscal year ending June 30th, 1900-01. Note: For report 1895 see La-32, Annual report, 1895, Pt. 2, p. 913. Wash., 1900-01. 14 v., pl., maps, 9 x 6, cl.
- 364 —Annual report of the Lighthouse Board to the Secretary of the Treasury for the fiscal year ending June 30th, 1900-01. Wash., 1900-01. 2 v., pl., maps, 9 x 6, cl.
- Le Service des phares des États-Unis: Rapport. John Millis. (International Cong. on Navigation, 8th.) Paris, 1900. 57 pp., pl. map, 11 x 7, pap. Ca-8. 26.
- Report of proceedings of the National Rivers and Harbors Congress; 1901. (See Cb-532.)
- 498 —Specifications, etc., for dredging and removing obstructions in harbors. Corps of Engineers. various places, 189-. 595 v., 14 x 8, pap. no title-page.
- 506 —Specifications, etc., for furnishing bolts, plates, spikes, etc., for crib work, etc., in harbors. Corps of Engineers. various places, 1881-84. 5 v., 14 x 8, pap. no title-page.
- 507 —Specifications, etc., for furnishing brush, poles, etc., for various kinds of work in harbors. Corps of Engineers. various places, 1880-88. 5 v., 14 x 8, pap. no title-page.
- 509 —Specifications, etc., for furnishing piles for various kinds of work in harbors, Corps of Engineers. various places, 1886-91. 5 v., 14 x 8, pap. no title-page.
- 510 —Specifications, etc., for furnishing ratline, rope, etc., for various kinds of work in harbors. Corps of Engineers. various places, 1881-83. 3 v., 14 x 8, pap. no title-page.
- 511 —Specifications, etc., for furnishing sand, stone, rock, gravel, etc., for various kinds of work in harbors. Corps of Engineers. various places, 189-. 111 v., 14 x 8, pap. no title-page.

Cc—(Continued).

- 512 —Specifications, etc., for furnishing timber, lumber, etc., for various kinds of work in harbors. Corps of Engineers. various places, 189-. 49 v., 14 x 8, pap. no title-page.
- 500 —Specifications, etc., for the construction and repair of dikes in harbors. Corps of Engineers. various places, 189-. 29 v., 14 x 8, pap. no title-page.
- 506 —Specifications, etc., for the construction and repair of wharves in harbors. Corps of Engineers. various places, 1884-1901. 8 v., 14 x 8, pap. no title-page.
- 499 —Specifications, etc., for the construction, extension and repair of breakwaters in harbors. Corps of Engineers. various places, 189-. 127 v., 14 x 8, pap. no title-page.
- 501 —Specifications, etc., for the construction, extension and repair of docks. Corps of Engineers. Chic., 1901-02. 2 v., 14 x 8, pap. no title-page.
- 502 —Specifications, etc., for the construction, extension and repair of jetties in harbors. Corps of Engineers. various places, 189-. 75 v., 14 x 8, pap. no title-page.
- 503 —Specifications, etc., for the construction, extension and repair of piers in harbors. Corps of Engineers. various places, 189-. 176 v., 14 x 8, pap.; no title-page.
- 504 —Specifications, etc., for the construction of cribs and placing cribs on foundations in harbors. Corps of Engineers. various places, 189-. 34 v., 14 x 8, pap. no title-page.
- 506 —Specifications, etc., for the construction of training walls, sea walls, revetments, etc., in harbors. Corps of Engineers. various places, 189-. 42 v., 14 x 8, pap. no title-page.
- 514 —Specifications, etc., for the removal of wrecks from harbors. Corps of Engineers. various places, 189-. 83 v., 14 x 8, pap. no title-page.
- United States public works, containing a summary of the methods of construction and character of materials and plant used in the public works under the charge of the War and Treasury Departments. W. M. Black. 1895. (See V-128.)
- WASHINGTON HARBOR.** Annual report of the Commissioners of the District of Columbia for the year ending June 30th; 1896. (See Od40-2.1.)
- 496 **WELLINGTON HARBOR.** Statement of accounts, with annual reports and other statistics; 1900-01. Wellington, New Zealand-Harbour Board. Wellington, 1901-02. 2 v., 13 x 9, pap.
- ZEEBRUGGE HARBOR.** Construction of the pier of the Port of Call of Zeebrugge: Report. Julien Nyssens-Hart and Charles Piens. (International Cong. on Navigation, 8th.) Paris, 1900. 14 pp., 2 pl., 11 x 7, pap. Ca-8.31.
- Harbor works at Havre and at Zeebrugge. L. F. Vernon-Harcourt. 1901. (See Ca-74, p. 19.)

WATERWAYS—LAKES.

Cd

- AUSTRIA.** Die Seen am Reschen-Scheideck; eine limnologische Studie. Johann Müllner. 1900. (See Qb-17, v. 7, Pt. 1.)
- Die Seen des Salzkammergutes, und die österreichische Traun: Erläuterungen zur ersten Lieferung des österreichischen Seenatlases. Johann Müllner. 1896. (See Qb-17, v. 6, Pt. 1.)
- Seestudien; Erläuterungen zur zweiten Lieferung des Atlas der österreichischen Alpenseen. Eduard Richter. 1897. (See Qb-17, v. 6, Pt. 2.)
- 19 **ERIE, LAKE.** Wind velocity and fluctuations of water level on Lake Erie; by Alfred J. Henry. U. S.-Weather Bureau. (Bulletin J.) Wash., 1902. 22 pp., map, tab., 12 x 9, pap.
- 35 **GREAT LAKES.** Report. U. S.-Board of Engineers on Deep Waterways. Wash., 1900. 3 v., ill. pl., maps, 12 x 8 (atlas 11 x 8), pap.
- 40 **UNITED STATES.** Specifications, etc., for bank protection in lakes. Corps of Engineers. New Orleans, 1895-96. 2 v., 14 x 8, pap. no title-page.
- 37 —Specifications, etc., for dredging and removing obstructions in lakes. Corps of Engineers. various places, 1887-97. 23 v., 14 x 8, pap. no title-page.
- 41 —Specifications, etc., for removing wrecks from lakes. Corps of Engineers. various places, 1887-97. 7 v., 14 x 8, pap. no title-page.
- 38 —Specifications, etc., for the construction and repair of breakwaters in lakes. Corps of Engineers. Burlington, Vt., 1885-90. 7 v., 14 x 8, pap. no title-page.
- 39 —Specifications, etc., for the construction and repair of dams in lakes. Corps of Engineers. Memphis, 1881-95. 2 v., 14 x 8, pap. no title-page.

Cd—(Continued).

- United States public works, containing a summary of the methods of construction and character of materials and plant used in the public works under the charge of the War and Treasury Departments. W. M. Black. 1898. (See V-128.)

WATERWAYS—OCEANS.**Ce**

- 33 **ATLANTIC OCEAN.** Specifications, etc., for removing wrecks from the Atlantic Ocean. U. S.-Corps of Engineers. various places, 189-. 10 v., 14 x 8, pap. _no title-page.
- 3 —Tide tables for Halifax, Quebec, St. John, N. B., etc., with tidal differences for the Atlantic Coast of Nova Scotia, the St. Lawrence River, etc.; 1901-02. Canada-Department of Marine and Fisheries. no place, 1900-01. 2 v., 8 x 7, pap.
- GENERAL.**
- 31 **ALLANSON-WINN, R. G.** Constructive power of the sea, with special reference to recent developments in the design and construction of groynes. Dublin, 1901. 44 pp., 8 x 5, pap.
- 32 —Foreshore protection with special reference to the Case system of groyning. Lond., 1899. pp. 133-160, pl., 9 x 5, pap.
- 30 —Notes on the improvement of foreshores by the Case system of groyning. Lond., 1900. 14 pp., il., 8 x 5, pap.
- CAMPREDON, EUGENE.** Rôle économique et social des voies de communication. (Bibliothèque du Conducteur de Travaux Publics.) 1899. (See Zj-203.)
- 4 **CANADA—TIDAL SURVEY.** Survey of tides and currents in Canadian waters; Report of progress; 1901. Ottawa, 1902. 1 v., 10 x 7, pap.
- 37 **DAWSON, W. B.** Tide-gauges in northern climates and isolated situations. Lond., 1902. 24 pp., il., 9 x 6, pap.
- FRANZIUS, G., and others.** Wasserbau am Meere und in Strommündungen. 1901. (See V-120, v. 3, Pt. 3.)
- 42 **WHEELER, W. H.** The sea-coast; destruction, littoral drift, protection. N. Y., 1902. 282 pp., il., pl., 10 x 6, cl.
- 21 **NORTH SEA.** Dikes of Holland. G. H. Matthes. Wash., 1901. pp. 219-234, il., 10 x 7, pap.
- 17 **ST. LAWRENCE, GULF OF.** Currents in the Gulf of St. Lawrence, including the Anticosti Region, Belle Isle and Cabot Straits; condensed from the reports of the Survey of Tides and Currents, for the seasons of 1894, 1895 and 1896. Canada-Department of Marine and Fisheries. Ottawa, 1900. 28 pp., 10 x 7, pap.

WATERWAYS—CANALS—HISTORY.**Cfa**

- CHESAPEAKE & OHIO CANAL.** Report of the Directors of the Baltimore & Ohio R. R. Co. to the Legislature of Maryland. Note: Special report made in compliance with an order of the House of Delegates showing progress made on the railroad, and giving an account of the controversy with the C. & O. Canal Co. 1831. (See Ag-340.)

GENERAL.

- BERTHOT, PIERRE.** L'histoire des canaux. no date. (See Na-138, v. 3, p. 1.)
- LEGER, ALFRED.** Les travaux publics, les mines et la métallurgie aux temps des Romains; la tradition romaine jusqu'à nos jours. 1875. (See Ca-84.)
- UNITED STATES—BUREAU OF STATISTICS.** Study on the great canals of the world, with statistical statements. 1902. (See Ta3-115, Monthly Summary, 1901, p. 2143.)
- GREAT BRITAIN.** Lives of the engineers, with an account of their principal works; comprising also a history of inland communication in Britain. Samuel Smiles. 1861-62. (See Zb-81.)
- Report of the Conference on Canals and Inland Navigation, held on Thursday and Friday, May 10th and 11th, 1888, with map of English canals. Society of Arts. 1888. (See Sd6-24.4.)
- NEW YORK STATE.** History of the various projects, reports, discussions, and estimates for reaching the Great Lakes from tide-water, 1763-1901. W. P. Judson. 1901. (See Cfh-87, p. 965.)
- NICARAGUA CANAL.** Inter-oceanic canal across Nicaragua and the attitude toward it of the Government of the United States. T. B. Atkins. N. Y., no date. 56 pp., 10 x 7, b. p. Cfb-132, p. 149.

Cfa—(Continued).

- 31 **SUEZ CANAL.** Le canal de Suez. Voisin Bey. Contents: Pt. 1, Historique, administratif et actes constitutifs de la Compagnie; v. 1, Période des études et de la construction, 1854 à 1869; v. 2, Période de l'exploitation, 1870 à 1882; v. 3, Période de l'exploitation, 1883 à 1902; v. 4, Planches. Paris, 1902. 4 v., por., pl., 9 x 6 (atlas 12 x 9), pap.

WATERWAYS—CANALS—LOCATION.**Cfb**

- 148 **BRUNSWICK CANAL & R. R.** Report on the Brunswick Canal & R. R., Glynn County, Georgia, with an appendix containing the charter and commissioners, report. Loammi Baldwin. Bost., 1838. 39 pp., 9 x 6, pap.
- CHAMPLAIN CANAL.** Report on the barge canal from the Hudson River to the Great Lakes, Feb. 12th, 1901. New York—State Engineer and Surveyor. 1901. (See Cfh-87.)
- CHESAPEAKE & OHIO CANAL.** Correspondence between the C. & O. Canal Co. and the Baltimore & Ohio R. R. Co. in relation to the disputes between those companies concerning the right of way for their respective works along the Potomac River. 1830. (See Ab-399.)
- 49 **DARIEN CANAL.** List of books and of articles in periodicals relating to inter-oceanic canal and railway routes (Nicaragua, Panama, Darien, and the Valley of the Atrato, Tehuantepec and Honduras, Suez Canal); by Hugh A. Morrison, Jr., with an apx.: Bibliography of United States public documents. U. S.—Library of Congress. (56th Cong., 1st Sess. Senate doc. No. 59.) Wash., 1900. 174 pp., 9 x 6, pap.
- ERIE CANAL.** Report on the barge canal from the Hudson River to the Great Lakes, Feb. 12th, 1901. New York—State Engineer and Surveyor. 1901. (See Cfh-87.)
- GENERAL.**
- BERTHOT, PIERRE.** Tracé des canaux. no date. (See Na-138, v. 3, p. 108.)
- 168 **HARLEM RIVER CANAL.** Report on the petition of the H. R. Canal Co., together with affidavits relating to same. New York City—Committee on Roads and Canals. no place, 1899. pp. 369-396, 8 x 5, pap.
- KAISER WILHELM-KANAL.** Verein deutscher Ingenieure. 1901. (See Sd5-3.4, p. 194.)
- 165 **MANCHESTER SHIP CANAL.** Port of Manchester, with plans of the ship canal and the ship canal docks. Manchester, 1897(?) 3 sheets, 8 x 5. cl. no title-page.
- 169 **MARYLAND.** Report of the Commissioners appointed by the Mayor of the City of Baltimore, to explore and survey the route for a canal and stillwater navigation from the City of Baltimore to the head of tidewater at Port Deposit, with a map of the route. J. W. Glenn, R. C. Long and James Mosher. Balt., 1825. 24 pp., map, 9 x 6, pap.
- 147 **NEW YORK STATE.** Canal survey under Chapter 411, Laws 1900: Instructions for survey parties. State Engineer and Surveyor. Albany, 1900. 26 pp., pl., 9 x 6, cl.
- Report. U. S.—Board of Engineers on Deep Waterways. 1900. (See Cd-35.)
- Report on the barge canal from the Hudson River to the Great Lakes, Feb. 12th, 1901. State Engineer and Surveyor. 1901. (See Cfh-87.)
- Report on the spirit levels of the New York State barge canal survey of 1900 and 1901, by Wm. B. Landreth, Resident Engineer, Eastern Division, N. Y. Canals. State Engineer and Surveyor. 1902. (See Cfh-92.)
- 162 **NICARAGUA CANAL.** H. C. Taylor. no place, no date. 32 pp., 10 x 7, b. p.
- 162 —W. L. Merry. no place, 1890. 6 pp., 10 x 7, b. p. no title-page.
- 162 —American Atlantic and Pacific Ship Canal Co.; a refutation of its claim to the Nicaragua Canal route. J. C. Hueston. no place, 1888. 11 pp., 10 x 7, b. p.
- 162 —Control of the Pacific. H. C. Taylor. Note: Argument for the Nicaragua route. no place, 1887. pp. 407-416, 10 x 7, b. p.
- 162 —Expected earnings; a study of its commercial geography; effect on ocean routes; new trade advantages for the United States. Note: Reprinted from New York Evening Post. no place, 1888. 15 pp., 10 x 7, b. p.
- 38 —Interoceanic communication on the Western Continent: A study in commercial geography. G. E. Church. Lond., 1902. 42 pp., maps, tab., 10 x 6, pap.
- 163 —Isthmian Canal: A lecture before the Contemporary Club, Bridgeport, Conn., May 20th, 1902. G. S. Morison. no place, 1902. 22 pp., 10 x 6, pap.
- 150 —Isthmian Canal: An address before the Commercial Club of Chicago, Jan. 25th, 1902. G. S. Morison. no place, 1902. 12 pp., 9 x 6, pap.
- 139 —Isthmian Canal: An address delivered Apr. 24th, 1902, before the Massachusetts Reform Club. G. S. Morison. no place, 1902. 12 pp., 9 x 6, pap.

Cfb—(Continued).

- 49 —List of books and of articles in periodicals relating to interoceanic canal and railway routes (Nicaragua, Panama, Darien, and the Valley of the Atrato, Tehuantepec and Honduras, Suez Canal); by Hugh A. Morrison, Jr., with an apx.: Bibliography of United States public documents. U. S.-Library of Congress. (56th Cong., 1st Sess. Senate doc. No. 59.) Wash., 1900. 174 pp., 9 x 6, pap.
- 162 —Maritime ship canal of Nicaragua. Maritime Canal Co. of Nicaragua. no place, 1890. 17 pp., maps, 10 x 7, b. p.
- 145 —Neutralization of the Nicaragua Canal. J. R. Procter. Burlington, Vt., 1900. pp. 448-462, 8 x 6, pap. no title-page.
- 146 —Nicaragua Canal Bill: Speech in the House of Representatives, Tuesday, May 1st, 1900, with remarks, Wednesday, May 2d, 1900. T. E. Burton. Wash., 1900. 36 pp., 9 x 6, pap.
- Preliminary report, Nov. 30th, 1900. U. S.-Isthmian Canal Commission. (See Cfi-36.)
- Report; 1899-1901. U. S.-Isthmian Canal Commission. (See Cfi-37.)
- Report on the proposed ship canals through the American Isthmus connecting the continents of North and South America. U. S.-Senate Committee on Interoceanic Canals. Note: Contains statements of members of the Isthmian Canal Commission; concessions from the Governments bordering on the proposed Isthmian Canals; treaties, etc. 1901. (See Cfi-45.)
- 162 —Report on the tonnage of traffic within the zone of attraction of the maritime canal of Nicaragua in 1890, and as estimated for 1897. T. B. Atkins. Note: Report written to show the advantages of the Nicaragua route. N. Y., 1890. 27 pp., 10 x 7, b. p.
- Reports and message of the President of the United States, transmitting a convention to facilitate the construction of a ship canal to connect the Atlantic and Pacific Oceans. U. S.-Senate Committee on Interoceanic Canals. (56th Cong., 1st Sess. Senate rep. No. 1837, Pts. 1-6; No. 114 and No. 1649.) Note: Contains statements of members of the Isthmian Canal Commission; concessions from the governments bordering on the proposed Isthmian Canals; treaties, etc. 1902. (See Cfi-46.)
- 149 —Sanitary aspects of the Panama and Nicaragua Canals. G. A. Soper. N. Y., 1902. 18 pp., 8 x 5, pap.
- 162 —Waterways to the Pacific. H. C. Taylor. no place, no date. pp. 326-335, 10 x 7, b. p.
- OSWEGO CANAL.** Report on the barge canal from the Hudson River to the Great Lakes, Feb. 12th, 1901. New York-State Engineer and Surveyor. 1901. (See Cfi-87.)
- 170 **PANAMA CANAL.** Defense of the Panama route. Angelo Heilprin. Phil., 1902. 12 pp., 10 x 6, pap.
- 38 —Interoceanic communication on the Western Continent: A study in commercial geography. G. E. Church. Lond., 1902. 42 pp., maps, tab., 10 x 6, pap.
- 163 —Isthmian Canal: A lecture before the Contemporary Club, Bridgeport, Conn., May 30th, 1902. G. S. Morison. no place, 1902. 22 pp., 10 x 6, pap.
- 150 —Isthmian Canal: An address before the Commercial Club of Chicago, Jan. 25th, 1902. G. S. Morison. no place, 1902. 12 pp., 9 x 6, pap.
- 139 —Isthmian Canal: An address delivered Apr. 24th, 1902, before the Massachusetts Reform Club. G. S. Morison. no place, 1902. 12 pp., 9 x 6, pap.
- 49 —List of books and of articles in periodicals relating to interoceanic canal and railway routes (Nicaragua, Panama, Darien, and the Valley of the Atrato, Tehuantepec and Honduras, Suez Canal); by Hugh A. Morrison, Jr.; with an apx.: Bibliography of United States public documents. U. S.-Library of Congress. (56th Cong., 1st Sess. Senate doc. No. 59.) Wash., 1900. 174 pp., 9 x 6, pap.
- Preliminary report, Nov. 30th, 1900. U. S.-Isthmian Canal Commission. (See Cfi-36.)
- Report; 1899-1901. U. S.-Isthmian Canal Commission. (See Cfi-37.)
- Report on the proposed ship canals through the American Isthmus connecting the continents of North and South America. U. S.-Senate Committee on Interoceanic Canals. Note: Contains statements of members of the Isthmian Canal Commission; concessions from the Governments bordering on the proposed Isthmian Canals; treaties, etc. 1901. (See Cfi-45.)
- Reports and message of the President of the United States transmitting a convention between the United States and Great Britain to facilitate the construction of a ship canal to connect the Atlantic and Pacific Oceans. U. S.-Senate Committee on Interoceanic Canals. (56th Cong., 1st Sess. Senate rep. No. 1837, Pts. 1-6, No. 114 and No. 1649.) Note: Contains statements of members of the Isthmian Canal Commission; concessions from the governments bordering on the proposed Isthmian Canals; treaties, etc. 1902. (See Cfi-46.)

Cfb—(Continued).

- 149 —Sanitary aspects of the Panama and Nicaragua Canals. G. A. Soper. N. Y., 1902. 18 pp., 8 x 5, pap.
- 164 PENNSYLVANIA. Canals of Pennsylvania and the system of internal improvements. T. B. Klein. no place, 1901. 28 pp., il., 10 x 6, pap.
- 167 RHEIN-WESER-ELBE CANAL. Karte und Längenschnitt von dem binnenländischen Rhein-Weser-Elbe-Canal (Mittellandcanal) und seinen Zweigen. Verein für Hebung der Fluss- und Canal-Schiffahrt für Niedersachsen zu Hannover. Hannover, 1892. 5 pp., map, 11 x 6, pap.
- 49 SUEZ CANAL. List of books and of articles in periodicals relating to interoceanic canal and railway routes (Nicaragua, Panama, Darien, and the Valley of the Atrato, Tehuantepec and Honduras, Suez Canal); by Hugh A. Morrison, Jr., with an apx.: Bibliography of United States public documents. U. S.-Library of Congress. (56th Cong., 1st Sess. Senate doc. No. 59.) Wash., 1900. 174 pp., 9 x 6, pap.
- 166 UNITED STATES. Speech in the House of Representatives, Feb. 18th, 1873, in support of the resolution reported by the Committee on Commerce for promoting and improving the natural and artificial channels of water communication. J. S. Negley. Wash., 1873. 29 pp., tab., 9 x 6, pap.

WATERWAYS—CANALS—CONSTRUCTION.**Cfc**

- 98 BLACK RIVER CANAL. Specifications, contracts, etc., for work on the canals of the state. New York State-Canal Commissioner. no place, 1854-66. 8 v., 14 x 9, pap. no title-page.
- CHAMPLAIN CANAL. Report on the barge canal from the Hudson River to the Great Lakes, Feb. 12th, 1901. New York-State Engineer and Surveyor. 1901. (See Cfh-87.)
- Report, together with reports of the three Division Engineers, covering the estimated cost for completing what is known as the nine-million work on the Erie, Oswego and Champlain Canals. New York-State Engineer and Surveyor. 1901. (See Cfh-75.)
- 98 —Specifications, contracts, etc., for work on the canals of the state. New York State-Canal Commissioner. no place, 1854-66. 8 v., 14 x 9, pap. no title-page.
- ERIE CANAL. Report on the barge canal from the Hudson River to the Great Lakes, Feb. 12th, 1901. New York-State Engineer and Surveyor. 1901. (See Cfh-87.)
- Report, together with reports of the three Division Engineers, covering the estimated cost for completing what is known as the nine-million work on the Erie, Oswego and Champlain Canals. New York-State Engineer and Surveyor. 1901. (See Cfh-75.)
- 98 —Specifications, contracts, etc., for work on the canals of the state. New York State-Canal Commissioner. no place, 1854-66. 8 v., 14 x 9, pap. no title-page.
- GENERAL.
- BERTHOT, PIERRE. *Traité des canaux*. no date. (See Na-138, v. 3.)
- VERNON-HARCOURT, L. F. River and canal engineering, and irrigation works. 1902. (See V-124, p. 323.)
- YATES, J. A., comp. Standard specifications for railroad & canal construction for the use of contractors and civil engineers. 1886. (See Ac-183.)
- GREAT BRITAIN. Report of the Conference on Canals and Inland Navigation, held on Thursday and Friday, May 10th and 11th, 1888, with map of English canals. Society of Arts. 1888. (See Sd6-24.4.)
- KAISER WILHELM-KANAL. Verein deutscher Ingenieure. 1901. (See Sd5-3.4, p. 194.)
- 62 MANCHESTER SHIP CANAL. On the mechanical appliances employed in the construction of the M. S. Canal. E. L. Williams. Lond., 1891. pp. 418-427, pl., 9 x 6, pap.
- Report upon the M. S. Canal; by the Government Engineer. Canada-Department of Railways and Canals. 1891. (See Cfh-39.)
- NEW YORK STATE. Report of the State Engineer and Surveyor, together with reports of the three Division Engineers, covering the estimated cost for completing what is known as the nine-million work on the Erie, Oswego and Champlain Canals. 1901. (See Cfh-75.)
- Report on the barge canal from the Hudson River to the Great Lakes, Feb. 12th 1901. State Engineer and Surveyor. 1901. (See Cfh-87.)
- 98 —Specifications, contracts, etc., for work on the canals of the state. Canal Commissioner. no place, 1854-66. 8 v., 14 x 9, pap. no title-page.
- Testimony taken before the Canal Investigating Commission. 1898. (See Cfh-98.)

Cfc—(*Continued*).

OSWEGO CANAL. Report on the barge canal from the Hudson River to the Great Lakes, Feb. 12th, 1901. New York-State Engineer and Surveyor. 1901. (See Cfh-87.)

—Report, together with reports of the three Division Engineers, covering the estimated cost for completing what is known as the nine-million work on the Erie, Oswego and Champlain Canals. New York-State Engineer and Surveyor, 1901. (See Cfh-75.)

PENNSYLVANIA. Canals of Pennsylvania and the system of internal improvements. T. B. Klein. 1901. (See Cfb-164.)

55 **PORTAGE LAKE SHIP CANAL.** Plans for breakwater piers at the Lake Superior entrance to the Portage Lake Ship Canals, Mich. U. S.-Corps of Engineers. Houghton, 1897. 10 sheets, 15 x 26, pap. various scales.

68 **STAFFORDSHIRE & WORCESTERSHIRE CANAL.** Report of E. D. Marten to the Honorary Secretaries to the Conference on Inland Water Communication, held at Wolverhampton, on Nov. 18th, 1896, as to the improvement of the waterway between Bristol and Wolverhampton, and matters appertaining thereto. Wolverhampton, 1897. 24 pp., 8 x 5, pap.

UNITED STATES. Report in relation to the comparative merits of canals and railroads. House Committee on Internal Improvements. 1832. (See Ai-87.)

57 —Specifications, etc., for constructing canals. Corps of Engineers. various places, 189-. 11 v., 14 x 8, pap. no title-page.

70 —Specifications, etc., for dredging in canals. Corps of Engineers. various places, 189-. 10 v., 14 x 8, pap. no title-page.

74 —Specifications, etc., for the construction and repair of dikes in canals. Corps of Engineers. Detroit, 1884. 6 pp., 14 x 8, pap. no title-page.

73 —Specifications, etc., for the construction and repair of wharves in canals. Corps of Engineers. Portland, Ore., 1886. 2 pp., 14 x 8, pap. no title-page.

72 —Specifications, etc., for the construction, extension and repair of piers in canals. Corps of Engineers. various places, 189-. 8 v., 14 x 8, pap. no title-page.

71 —Specifications, etc., for the construction of revetments, etc., in canals. Corps of Engineers. various places, 189-. 7 v., 14 x 8, pap. no title-page.

WATERWAYS - CANALS—EQUIPMENT.**Cfd**

CHAMPLAIN CANAL. Report on the barge canal from the Hudson River to the Great Lakes, Feb. 12th, 1901. New York-State Engineer and Surveyor. 1901. (See Cfh-87.)

DULUTH SHIP CANAL. Specifications, etc., for furnishing and setting lamp posts, globes, etc., for piers of D. S. Canal, Minn. U. S.-Corps of Engineers. 1900. (See Hb-44.)

ERIE CANAL. Report on the barge canal from the Hudson River to the Great Lakes, Feb. 12th, 1901. New York-State Engineer and Surveyor. 1901. (See Cfh-87.)

—Report on the Erie and Oswego Canals in answer to a resolution of the Senate relative to enlarging the locks. New York State-Commissioners of the Canal Fund. 1867. (See Cfh-80.)

FRANCE. Excursion à Douai le dimanche 29 juillet 1900: Dérivation de la Scarpe autour de Douai et traction électrique des bateaux. International Congress on Navigation, 8th. Arras, 1900. 16 pp., maps, 10 x 6, pap. Ca-8.53.

GENERAL.

BERTHOT, PIERRE. Traité des canaux. no date. (See Na-138, v. 3.)

DONIOL, ALBERT. Observations présentées au sujet du système de traction électrique des bateaux proposé par M. Köttingen. (International Cong. on Navigation, 8th.) Paris, 1900. 3 pp., 8 x 5, pap. Ca-8.15a.

GALLIOT, FRANÇOIS. Progress in mechanical methods of supplying water to canals: Report. (International Cong. on Navigation, 8th.) Paris, 1900. 9 pp., 2 pl., 11 x 7, pap. Ca-8.9.

GERARD, LEON. Notes et expériences sur la traction électrique sur les voies navigables: Rapport. (International Cong. on Navigation, 8th.) Bruxelles, 1900. 30 pp., 10 x 7, pap. Ca-8.50.

HUTTON, W. R. Applications de la mécanique à l'alimentation des canaux: Rapport. (International Cong. on Navigation, 8th.) Paris, 1900. 6 pp., 11 x 7, pap. Ca-8.8.

KÖTTGEN, C. Electrical haulage on canals: Report. (International Cong. on Navigation, 8th.) Paris, 1900. 18 pp., 2 pl., 11 x 7, pap. Ca-8.15.

LA RIVIERE, GASTON and BOURGUIN. Progrès des applications de la mécanique à l'exploitation des voies navigables: Monopoles de traction: Rapport. (International Cong. on Navigation, 8th.) Paris, 1900. 29 pp., 2 pl., 11 x 7, pap. Ca-8.17.

Cfd—(Continued).**GENERAL**—(Continued).

MAS, F. B. DE. Recherches expérimentales sur le matériel de la batellerie. 1891-97. (See Cb-537.)

RUDOLPH, A. Halage électrique sur les canaux: Système de halage de A. Rudolph. (International Cong. on Navigation, 8th.) Hambourg, 1900. 6 pp., pl., 11 x 7, pap. Ca-8.49.

SCHULTE. Progrès des applications de la mécanique à l'alimentation des canaux: Rapport. (International Cong. on Navigation, 8th.) Paris, 1900. 8 pp., 11 x 7, pap. Ca-8.7.

KAISER WILHELM-KANAL. Verein deutscher Ingenieure. 1901. (See Sd5-3.4, p. 194.)

NEW YORK STATE. Report on the barge canal from the Hudson River to the Great Lakes, Feb. 12th, 1901. State Engineer and Surveyor. 1901. (See Cfh-87.)

OSWEGO CANAL. Report on the barge canal from the Hudson River to the Great Lakes, Feb. 12th, 1901. New York-State Engineer and Surveyor. 1901. (See Cfh-87.)

—Report on the Erie and Oswego Canals in answer to a resolution of the Senate relative to enlarging the locks. New York State-Commissioners of the Canal Fund. 1887. (See Cfh-80.)

16 UNITED STATES. Specifications, etc., for constructing and improving various parts of locks and furnishing gates, anchorages, operating machinery, etc. Corps of Engineers. various places, 189-. 17 v., 14 x 8, pap. no title-page.

30 —Specifications, etc., for furnishing stone, timber, iron work, etc., for locks, etc., in canals. Corps of Engineers. various places, 189-. 16 v., 14 x 8, pap. no title-page.

WATERWAYS - CANALS—OPERATION.**Cfe**

CANAL DE LA SENSEE. Excursion à Douai le dimanche 29 juillet 1900: Dérivation de la Scarpe autour de Douai et traction électrique des bateaux. International Congress on Navigation, 8th. Arras, 1900. 16 pp., maps, 10 x 6, pap. Ca-8.58.

CHAMPLAIN CANAL. Report on the barge canal from the Hudson River to the Great Lakes, Feb. 12th, 1901. New York-State Engineer and Surveyor. 1901. (See Cfh-87.)

DORTMUND-EMS CANAL. Effects of navigation upon the bottom and banks of the Dortmund-Ems Canal: Report. F. Thiele. (International Cong. on Navigation, 8th.) Paris, 1900. 9 pp., pl., 11 x 7, pap. Ca-8.16.

58 —Schiffswiderstand und Schiffsbetrieb nach Versuchen auf dem Dortmund-Ems-Kanal: bearbeitet von R. Haack. Germany-Ministerium der Öffentlichen Arbeiten. Berlin, 1900. 3 v., il., pl., tab., 14 x 10 (pl. 28 x 22), ¼ cl.

ERIE CANAL. Evidence and arguments given before the Committee, Mar. 19th, 20th, 25th, 1879, favoring the introduction, without expense to the State, of an improved system of towage upon the canals, by a railway to be constructed subsidiary thereto. New York State-Assembly Committee on Canals. no date. (See Cfh-82.)

—Letter to the President of the New York Produce Exchange in relation to deepening the Erie Canal. T. C. Ruggles. 1879. (See Zd-89, p. 15.)

—Low tolls and steam on the Erie Canal: the Belgian system of steam cable towage. New York Steam Cable Towing Co. N. Y., 1877. 15 pp., 9 x 6, b. p. Za-39, p. 159.

—Report on the barge canal from the Hudson River to the Great Lakes, Feb. 12th, 1901. New York-State Engineer and Surveyor. 1901. (See Cfh-87.)

GENERAL.

BERTHOT, PIERRE. Exploitation des ports et des canaux. no date. (See Na-188, v. 3, p. 686.)

CORTHELL, E. L. Report by E. L. Corthell, Delegate of the United States to the Seventh International Congress of Navigation, held at Brussels, Belgium, July, 1898. (56th Cong., 1st Sess. Senate doc. No. 30.) Wash., 1900. 245 pp., pl., maps, 9 x 6, cl. Ca-7.6.

ENGELS, HUBERT. Resistance of boats under traction: Report. (International Cong. on Navigation, 8th.) Paris, 1900. 4 pp., pl., 11 x 7, pap. Ca-8.14.

GALLIOT, FRANÇOIS. Progress in mechanical methods of supplying water to canals: Report. (International Cong. on Navigation, 8th.) Paris, 1900. 9 pp., 2 pl., 11 x 7, pap. Ca-8.9.

Cfe—(Continued).**GENERAL—(Continued).**

- 53 **GERMANY—MINISTERIUM DER ÖFFENTLICHEN ARBEITEN.** Schiffswiderstand und Schiffsbetrieb nach Versuchen auf dem Dortmund-Ems-Kanal; bearbeitet von R. Haack. Berlin, 1900. 3 v., 11, pl., tab., 14 x 10 (pl. 28 x 22), $\frac{3}{4}$ cl.
- HUTTON, W. R.** Applications de la mécanique à l'alimentation des canaux: Rapport. (International Cong. on Navigation, 8th.) Paris, 1900. 6 pp., 11 x 7, pap. Ca-8.8.
- LA RIVIERE, GASTON, and BOURGUIN.** Progrès des applications de la mécanique à l'exploitation des voies navigables: Monopoles de traction: Rapport. (International Cong. on Navigation, 8th.) Paris, 1900. 29 pp., 2 pl., 11 x 7, pap. Ca-8.17.
- MAS, F. B. DE.** Recherches expérimentales sur le matériel de la batellerie. 1891-97. (See Cb-537.)
- ROTA, G.** On the resistance of boats as used for inland navigation: Model experiments on same: Report. (International Cong. on Navigation, 8th.) Paris, 1900. 9 pp., 2 pl., 11 x 7, pap. Ca-8.21.
- SCHULTE.** Progrès des applications de la mécanique à l'alimentation des canaux: Rapport. (International Cong. on Navigation, 8th.) Paris, 1900. 8 pp., 11 x 7, pap. Ca-8.7.
- UNITED STATES—BUREAU OF STATISTICS.** Study on the great canals of the world, with statistical statements. 1902. (See Ta3-115, Monthly Summary, 1901, p. 2143.)
- 47 **GERMANY.** Die wirtschaftliche Bedeutung der Kanalffrage: Vortrag gehalten in der Volkswirtschaftlichen Gesellschaft zu Berlin am 9. Januar 1900. Sympher. Berlin, 1900. 36 pp., 9 x 6, pap.
- GREAT BRITAIN.** Railway and Canal Traffic Act, 1888; Pt. 1. W. A. Hunter. Note: A full account of the existing law with respect to maximum rates and terminal charges and the new classification of goods and revised schedules of rates of twenty-four principal railways of the United Kingdom. 1889. (See Af-310.)
- Report from the Select Committee on Railways and Canals Amalgamation; 1st-2d; 1846. Lond., 1846. 2 v., 13 x 9, b. p. A1-93, p. 639.
- Report of the Conference on Canals and Inland Navigation, held on Thursday and Friday, May 10th and 11th, 1888, with map of English canals. Society of Arts. 1888. (See Sd6-24.4.)
- KAISER WILHELM KANAL.** Verein deutscher Ingenieure. 1901. (See Sd5-3.4, p. 194.)
- 44 **MANCHESTER SHIP CANAL.** The economic results of the ship canal on Manchester and the surrounding district. A. W. Fletcher. Manchester, 1899. 43 pp., tab., 8 x 5, pap.
- NEW BASIN CANAL.** Report of the Board and Superintendent from Apr. 30th, 1896, to Apr. 30th, 1898. Louisiana—Board of Control of the New Basin Canal and Shell Road. (See Cfh-83.)
- NEW YORK STATE.** Annual report of the Auditor of the Canal Department on the tolls, trade and tonnage of the canals of the State of New York; 1848-50, '52-53, '55-61, '66, '70, '74. (See Cfh-17.)
- Evidence and arguments given before the Assembly Committee on Canals, Mar. 19th, 20th, 25th, 1879, favoring the introduction, without expense to the State, of an improved system of towage upon the canals, by a railway to be constructed subsidiary thereto. no date. (See Cfh-82.)
- Report of the Commerce Commission. 1900. (See Zd-101.)
- Report of the Commissioners invited by the Canal Board, July 10th, 1877, to consider and report on the subject of tolls upon the canals, having reference to the subject of revenues, and also to increasing the commerce of the canals. 1878. (See Cfh-81.)
- Report of the Select Committee appointed by the Senate to investigate into the management of the canals of the State of New York, and the official conduct of persons now or heretofore connected therewith; and the conduct of persons comprising the Canal Contracting Board. 1868. (See Cfh-91.)
- Report on the barge canal from the Hudson River to the Great Lakes, Feb. 12th, 1901. State Engineer and Surveyor. 1901. (See Cfh-87.)
- 45 —State canal tolls; the diversion of trade from the City of New York and from the New York canals: Report of Mr. Walker, Statistician of the Exchange, on this diversion of trade; proceedings of a meeting of the New York Produce Exchange, in relation thereto, held Feb. 10th, 1873. N. Y., 1873. 14 pp., 9 x 6, pap.
- Testimony taken before the Canal Investigating Commission. 1898. (See Cfh-93.)

Cfe—(Continued).

- OSWEGO CANAL.** Evidence and arguments given before the Committee, Mar. 19th, 20th, 25th, 1879, favoring the introduction, without expense to the State, of an improved system of towage upon the canals, by a railway to be constructed subsidiary thereto. New York State-Assembly Committee on Canals. no date. (See Cfh-82.)
- Report on the barge canal from the Hudson River to the Great Lakes, Feb. 12th, 1901. New York-State Engineer and Surveyor. 1901. (See Cfh-87.)
- PENNSYLVANIA.** Canals of Pennsylvania and the system of internal improvements. T. B. Klein. 1901. (See Cfb-164.)
- RHEIN-ELBE CANAL.** Die wirthschaftliche Bedeutung der Kanalffrage: Vortrag gehalten in der Volkswirtschaftlichen Gesellschaft zu Berlin am 9. Januar 1900. Sympher. 1900. (See Cfe-47.)
- UNITED STATES.** Conveyance of water in irrigation canals, flumes and pipes. Samuel Fortler. (U. S. Geological Survey. Water Supply and Irrigation Papers.) 1901. (See De-81, No. 43.)
- Report in relation to the comparative merits of canals and railroads. House Committee on Internal Improvements. 1882. (See Ai-37.)
- Review of the Inter-State Commerce Bill as reported by the Conference Committee at Washington, Dec., 1886. G. R. Blanchard. Chic., 1886. 15 pp., tab., 9 x 6, b. p. Af-298, p. 85.

WATERWAYS—CANALS—LEGAL DOCUMENTS.**Cff**

- 46 DELAWARE & HUDSON CANAL.** In the Court of Appeals: The President, Managers and Company of the D. & H. Canal Co., Respondents, *vs.* the Pennsylvania Coal Co., Appellants: Opinion of the Court. Allen. N. Y., 1872. 19 pp., 10 x 7, pap.
- Lease of the property of the Rensselaer & Saratoga R. R. Co. to the D. & H. Canal Co., May 1st, 1871. (See Af-384.)
- DELAWARE & RARITAN CANAL.** State of New Jersey, in the Court of Errors and Appeals in the last resort in all causes; between the Raritan & Delaware Bay R. R. Co. and the Camden & Atlantic R. R. Co., Appellants, and the D. & R. Canal and Camden & Amboy R. R. & Transportation Companies, Respondents: Appeal from decree in Chancery. Note: Case relates to the right of transportation of freight and passengers between New York and Philadelphia in the State of New Jersey by the D. & R. Canal Co. and C. & A. R. R. & Transportation Co. 1866. (See Af-434.)
- GREAT BRITAIN.** Act to make better provision for carrying into effect the Railway and Canal Traffic Act, 1854, and for other purposes connected therewith. (36 & 37 Vict.) Lond., 1873. 13 pp., 13 x 9, b. p. no title-page. Af-326, p. 1.
- Railway and Canal Traffic Act, 1838; Pt. 1. W. A. Hunter. Note: A full account of the existing law with respect to maximum rates and terminal charges and the new classification of goods and revised schedules of rates of twenty-four principal railways of the United Kingdom. 1839. (See Af 310.)
- Regulation of Railways Act, 1873, and other railway and canal statutes; containing the law of traffic facilities, undue preference, through rates, canal maintenance, working agreements, railway arbitrations, and other matters within the jurisdiction of the Railway Commissioners; with the general orders, forms, and tables of fees. J. M. Lely. 1873. (See Af-311.)
- Treatise on the law relating to rates and traffic on railways and canals, with special reference to the Railway and Canal Traffic Act, 1888, and an appendix of statutes, rules, etc. A. K. Butterworth and C. E. Ellis. 1889. (See Af-313.)
- HARLEM RIVER CANAL.** Report on the petition of the H. R. Canal Co., together with affidavits relating to same. New York City-Committee on Roads and Canals. 1839. (See Cfb-168.)
- INDIANA CENTRAL CANAL.** Supreme Court of Indiana; the I. C. Canal Co., *vs.* the State of Indiana, *et al.*; appeal from the Hendricks Circuit Court; appellant's brief. Baker and others. Note: Case relates to the legal ownership of a strip of land claimed by both parties. no place, no date. 147 pp., 9 x 6, b. p. Af-299, p. 1.
- LEHIGH COAL & NAVIGATION CO.** Lease of the Lehigh & Susquehanna R. R. by the Central R. R. Co. of New Jersey. Note: Agreement between the L. C. & N. Co. and the C. R. R. Co. of N. J. 1871. (See Af-338.)
- NICARAGUA CANAL.** Concessions and decrees of the Republic of Costa Rica to the Nicaragua Canal Association of New York. no place, 1888. 28 pp., 10 x 7, b. p. Cfb-162, p. 121.

Cff—(Continued).

- PENNSYLVANIA & NEW YORK CANAL & R. R.** Lease of the State Line & Sullivan R. R. Co. to the P. & N. Y. Canal & R. R. Co. 1884. (See Af-379.)
SUEZ CANAL. Le canal de Suez; historique administratif et actes constitutifs de la compagnie. Voisin Bey. 1902. (See Cfa-31, Pt. 1.)

WATERWAYS—CANALS—REPORTS, COMPANY.

Cfg

- 13 **CHESAPEAKE & OHIO CANAL.** Annual report of the President and Directors to the Stockholders; 2d; 1830. Wash., 1830. 1 v., 9 x 6, pap.
DELAWARE & HUDSON CANAL. Annual report; 1825, '27, '31-32, '34-38. (See Ag-518.)
 36 **LEHIGH COAL & NAVIGATION CO.** Report of the Board of Managers to the Stockholders; 71st-72d; 1891-92. Phil., 1892-93. 2 v., 9 x 6, pap.
 37 **MANCHESTER SHIP CANAL.** Directors' report and statements of account for the half-year ending Dec. 31, 1898; June 30-Dec. 31, 1899. Manchester, 1898-99. 3 v., 14 x 10, pap.
 38 —Report of the half-yearly meeting of Shareholders; 28th-29th; Aug., 1899-Feb., 1900. Manchester, 1899-1900. 2 v., 10 x 7, pap.
 21 **MONONGAHELA NAVIGATION CO.** Annual report; 26th; 1836. Pittsburg, 1836. 1 v., 9 x 6, pap.
NEW HAVEN & NORTHAMPTON CO. Annual report of the Board of Directors to the Stockholders; 1844. (See Ag-443.)
UNITED NEW JERSEY R. R. & CANAL. Report of the State Director; 1853, '56, '60, '71, '74-79, '83-85, '87-91, '93-1901. (See Ah-32.)

WATERWAYS—CANALS—REPORTS, STATE.

Cfh

- 53 **ILLINOIS—CANAL COMMISSIONERS.** Report to the Governor; 1897-98. Springfield, 1898-99. 2 v., 9 x 6, cl., pap.
 83 **LOUISIANA—BOARD OF CONTROL OF THE NEW BASIN CANAL AND SHELL Road.** Report of the Board and Superintendent from Apr. 30th, 1896, to Apr. 30th, 1898. New Orleans, 1898. 1 v., 9 x 6, pap.
NEW JERSEY—SECRETARY OF STATE. Annual reports of the railroad and canal companies of the state; 1853, '56, '60, '71, '74-79, '83-85, '87-91, '93-1901. (See Ah-32.)
 82 **NEW YORK—ASSEMBLY COMMITTEE ON CANALS.** Evidence and arguments given before the Committee, Mar. 19th, 20th, 25th, 1879, favoring the introduction, without expense to the State, of an improved system of towage upon the canals, by a railway to be constructed subsidiary thereto. no place, no date. 89 pp., 9 x 6, pap.
 78 **NEW YORK—ASSEMBLY COMMITTEE ON WAYS AND MEANS.** Report on the United States deposit fund, and on the recommendation of the Comptroller to levy a direct tax. Note: Report upon the finances and internal improvements of the State of New York. 1893, reprinted for the benefit of the friends of the Western R. R. Bost., 1899. 65 + 6 pp., 9 x 6, pap.
 88 **NEW YORK—CANAL BOARD.** Proceedings; 1872-74, Jan., 1875. Albany, 1872-75. 4 v., tab., 9 x 6, sh., pap.
 81 —Report of the Commissioners invited by the Board, July 10th, 1877, to consider and report on the subject of tolls upon the canals, having reference to the subject of revenues, and also to increasing the commerce of the canals. Albany, 1878. 74 pp., 9 x 6, pap.
 24 **NEW YORK—CANAL COMMISSIONERS.** Annual report; 1880, '86, '72. Albany, 1861-73. 3 v., 9 x 6, cl.
 22 **NEW YORK—CANAL DEPARTMENT.** Annual financial report of the Auditor; 1861, '63-64, '68, '74, '79, '81. Albany, 1862-81. 7 v., 9 x 6, cl., pap.
 17 —Annual report of the Auditor on the tolls, trade and tonnage of the canals of the State of New York; 1848-50, '52-53, '55-61, '66, '70, '74. Albany, 1849-75. 15 v. in 16, 9 x 6, cl., pap.
 79 —Annual report of the Auditor relative to the expenditures on the canals of the state; 1853, '56, '61. Albany, 1854-62. 3 v., 9 x 6, pap.
 69 **NEW YORK—CANAL INVESTIGATING COMMISSION (1898).** Report of the Consulting and Advisory Engineers. E. P. North and L. E. Cooley. no place, 1898. 49 + 7 pp., tab., 9 x 6, pap.
 93 —Testimony taken before the Commission. no place, 1898. 5 v., 5878 pp., 11 x 8, cl.

Cfh—(Continued).

- 90 **NEW YORK—COMMISSIONERS OF THE CANAL FUND.** Annual report of tolls, trade and tonnage of the New York canals; 1886-88, '45-46. Albany, 1887-47. 5 v., tab., 9 x 6, pap.
- 60 — Annual report, with the annual report of the Auditor of the Canal Department; 1852-55, '57-60. Albany, 1853-61. 8 v., 9 x 6, pap., cl.
- 80 — Report on the Erie and Oswego Canals in answer to a resolution of the Senate relative to enlarging the locks. Albany, 1867. 23 pp., tab., 9 x 6, pap.
- 77 **NEW YORK—COMPTROLLER.** Annual financial report relating to the canals of the State of New York; 1898. N. Y., 1899. 1 v., 9 x 6, pap.
- 91 **NEW YORK—SELECT COMMITTEE ON CANAL INVESTIGATION.** Report of the Select Committee appointed by the Senate to investigate into the management of the canals of the State of New York, and the official conduct of persons now or heretofore connected therewith; and the conduct of persons comprising the Canal Contracting Board. Albany, 1868. 1014 pp., 9 x 6, cl.
- 25 **NEW YORK—STATE ENGINEER AND SURVEYOR.** Annual report; 1898-1901. Albany, 1899-02. 4 v., maps, tab., 9 x 6, cl.
- 87 — Report on the barge canal from the Hudson River to the Great Lakes, Feb. 12th, 1901. Albany, 1901. 2 v., pl., maps, tab., 9 x 6, 9 x 11, cl.
- 92 — Report on the spirit levels of the New York State barge canal survey of 1900 and 1901; by Wm. B. Landreth, Resident Engineer, Eastern Division, N. Y. Canals. no place, 1902. 711 pp., pl., map, 8 x 5, pap.
- 75 — Report, together with reports of the three Division Engineers, covering the estimated cost for completing what is known as the nine-million work on the Erie, Oswego and Champlain Canals. Albany, 1901. 8 pp., 9 x 6, pap.
- Upper Hudson storage surveys: Report of George W. Rafter. 1896-97. (See Cb-184.)
- 85 **NEW YORK—SUPERINTENDENT OF PUBLIC WORKS.** Annual report on the canals of the State for the year ending Sept. 30th, 1893-94, '98. Albany, 1894-99. 3 v., maps, 9 x 6, cl.
- 89 — Report on trade and tonnage of the canals; 1895. Albany, 1896. 1 v., tab., 9 x 6, cl.
- NORTH CAROLINA—BOARD OF RAILROAD COMMISSIONERS.** Annual report; 1894-95. Note: Contains returns of canal companies. (See Ah-68.)
- NORTH CAROLINA—CORPORATION COMMISSION.** Annual report; 1899. (See Ah-89.)
- PENNSYLVANIA—SECRETARY OF INTERNAL AFFAIRS.** Annual report; 1890-91, '93-1901. (See Ah-2, Pt. 4.)

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- CANADA—DEPARTMENT OF RAILWAYS AND CANALS.** Annual report for the fiscal year ending June 30th, 1900-01. (See Ai-2.)
- 39 — Report upon the Manchester Ship Canal; by the Government Engineer. Ottawa, 1891. 17 pp., tab., 10 x 7, pap.
- 35 **CANADA—INTERNAL REVENUE DEPARTMENT.** Canal statistics for season of navigation; 1886. Ottawa, 1886. 1 v., tab., 9 x 6, pap.
- GREAT BRITAIN—SELECT COMMITTEE ON RAILWAYS AND CANALS** Amalgamation. Report; 1st-2d; 1846. Lond., 1846. 2 v., 13 x 9, b. p. Ai-93, p. 689.
- MEXICO—MINISTERIO DE FOMENTO.** Memoria presentada al Congreso de la Union, por el Secretario de Estado y del Despacho de Fomento, Colonizacion, Industria y Comercio de la República Mexicana; 1877. (See Na-119.)
- UNITED STATES—BOARD OF ENGINEERS ON DEEP WATERWAYS.** Report. 1900. (See Cd-35.)
- UNITED STATES—HOUSE COMMITTEE ON INTERNAL IMPROVEMENTS.** Report in relation to the comparative merits of canals and railroads. 1832. (See Ai-87.)
- 36 **UNITED STATES—ISTHMIAN CANAL COMMISSION.** Preliminary report, Nov. 30th, 1900. (56th Cong., 2d Sess. Senate doc. No. 5.) Wash., 1900. 44 pp., 9 x 6, pap.
- 37 — Report; 1899-1901. Wash., 1901-02. 2 v., 9 x 6, pap.
- 38 — Report upon the proposition of the New Panama Canal Company to sell and dispose of all its rights, property, and unfinished work to the United States. (57th Cong., 1st Sess. Senate doc. No. 123.) Wash., 1902. 10 pp., 9 x 6, pap.

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- 45 **UNITED STATES—SENATE COMMITTEE ON INTEROCEANIC CANALS.** Report on the proposed ship canals through the American Isthmus connecting the continents of North and South America. Note: Contains statements of members of the Isthmian Canal Commission; concessions from the governments bordering on the proposed Isthmian canals; treaties, etc. Wash., 1901. 574 pp., 9 x 6, pap.
- 46 — Reports, and message of the President of the United States, transmitting a convention between the United States and Great Britain to facilitate the construction of a ship canal to connect the Atlantic and Pacific Oceans. (56th Cong., 1st Sess. Senate rep. No. 1837, Pts. 1-6; No. 114 and No. 1649.) Note: Contains statements of members of the Isthmian Canal Commission; concessions from the governments bordering on the proposed Isthmian canals; treaties, etc. Wash., 1902. 426 pp., pl., 9 x 6, pap.

WATER SUPPLY.

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Da

- 22a BURNELL, G. R. Rudiments of hydraulic engineering. Lond., 1852. 2 v., 7 x 4, cl.
- 99 CHURCH, I. P. Diagrams of mean velocity of uniform motion of water in open channels, based on the formula of Ganguillet and Kutter. N. Y., 1902. unpaged, 9 x 12, pap.
- 141 COFFIN, F. C. Graphical solution of hydraulic problems, treating of the flow of water through pipes, in channels and sewers, over weirs, etc. ed. 2, rev. and enl. N. Y., 1901. 5 + 79 pp., tab., 8 x 5, ro.
- 122 CRUGNOLA, GAETANO. Sulla proposta di un profilo economico di diga per formazione di laghi artificiali. Torino, 1901. 9 pp., pl., 9 x 6, pap.
- 144 DARIES, GEORGES. Calcul des canaux & aqueducs. (Encyclopédie Scientifique des Aide-Mémoire.) Paris, 1898 (r) 180 pp., il., 8 x 5, pap.
- 189 — Distributions d'eau. (Bibliothèque du Conducteur de Travaux Publics.) Paris, 1899. 12 + 566 pp., il., 8 x 5, ro.
— Mécanique, hydraulique, thermodynamique. (Bibliothèque du Conducteur de Travaux Publics.) 1896. (See V-123.)
- DARTON, N. H. Preliminary description of the geology and water resources of the southern half of the Black Hills and adjacent regions in South Dakota and Wyoming. (U. S. Geological Survey.) 1901. (See Yh-40, Annual report, 1899-1900, v. 4, p. 489.)
— Preliminary list of deep borings in the United States. (U. S. Geological Survey. Water Supply and Irrigation Papers.) 1902. (See De-81, Nos. 57, 61.)
- 142 DEBAUVE, A. Distributions d'eau; égouts. Paris, 1897. 3 v., il., pl., 10 x 6 (plates 13 x 10), 1/4 mor.
- FELLOWS, A. L. Measurement of water. 1900. (See De-130, Bulletin No. 1.)
- 143 IMBEAUX, ED. L'alimentation en eau et l'assainissement des villes; compte rendu des derniers progrès et de l'état actuel de la science sur ces questions. Paris, 1902. 2 v., il., 11 x 8, pap.
- ITALY—MINISTERO DEI LAVORI PUBBLICI. Relazione sull' andamento dei servizi; July, 1898-Dec., '99. (See Al-95.)
- JOHNSON, W. D. The High Plains and their utilization. (U. S. Geological Survey.) 1901. (See Yh-40, Annual report, 1899-1900, Pt. 4, p. 601.)
- KING, F. H. Principles and conditions of the movements of ground water. (U. S. Geological Survey.) 1899. (See Yh-40, Annual report, 1897-98, Pt. 2, p. 59.)
- KUICHLING, EMIL. Report on the water supply of the proposed enlargement and improvement of the Erie, Champlain and Oswego Canals. 1901. (See Cfh-87, p. 613.)
- LANE, A. C. Lower Michigan mineral waters: A study into the connection between their chemical composition and mode of occurrence. (U. S. Geological Survey. Water Supply and Irrigation Papers.) 1899. (See De-81, No. 31.)
— Water resources of the Lower Peninsula of Michigan. (U. S. Geological Survey. Water Supply and Irrigation Papers.) 1899. (See De-81, No. 30.)
- 25 LOPES, A. L. Aguas minero-medicinaes de Portugal. Lisboa, 1892. 476 pp., 8 x 6, pap.
- MASON, W. P. Water supply (considered principally from a sanitary standpoint). 1902. (See Db-4a.)
- 58 MERRIMAN, MANSFIELD. Treatise on hydraulics. ed. 7, rev. N. Y., 1900. 10 + 427 pp., il., 9 x 6, cl.
- 136 MOORE, E. C. S. New tables for the complete solution of Ganguillet and Kutter's formula for the flow of liquid in open channels, pipes, sewers and conduits. Lond., 1901. 16 + 231 pp., 9 x 6, cl.
- NEW JERSEY—GEOLOGICAL SURVEY. Annual report of the State Geologist; 1896, '98-1901. (See Yh-22.)
- 121 NEW YORK—STATE ENGINEER AND SURVEYOR. Report on gaugings of streams in the State of New York by the Hydrographer in Charge, under direction of the State Engineer and Surveyor, in co-operation with United States Geological Survey; 1900. Albany, 1901. 1 v., il., map, tab., 9 x 6, pap.

Da—(Continued).

- 137 OLIVE, J. A. *Traité d'hydraulique; alimentation et distribution d'eau, jaugeages, établissements de fontaines publiques.* Paris, no date. 684 pp., il., tab., 11 x 8, ¼ mor.
- PENCK, ALBRECHT. *Untersuchungen über Verdunstung und Abfluss.* 1896. (See Qb-17, v. 5, p. 461.)
- PREAUDEAU, A. DE. *Manuel hydrologique du bassin de la Seine: sous la direction de M. Ch. Lefebvre de Fourcy et de M. G. Lemoine.* 1894. (See Cb-518.)
- 111 RHODE ISLAND—COMMISSIONER OF DAMS AND RESERVOIRS. *Annual report; 9th-20th; 1890-1901.* Providence, 1891-1902. 12 v., pl., 9 x 6, pap.
- RUSSELL, I. C. *Geology and water resources of Nez Perce County, Idaho.* (U. S. Geological Survey. *Water Supply and Irrigation Papers.*) 1891. (See De-81, Nos. 53-54.)
- RUVARAC, VASA. *Die Abfluss- und Niederschlagsverhältnisse von Böhmen.* 1896. (See Qb-17, v. 5, p. 425.)
- 62 SCHUYLER, J. D. *Reservoirs for irrigation, water-power, and domestic water-supply; with an account of various types of dams and the methods and plans of their construction; together with a discussion of the available water-supply for irrigation in various sections of arid America; the distribution, application and use of water; the rainfall and run-off, the evaporation from reservoirs; the effect of silt upon reservoirs, etc.* N. Y., 1901. 18 + 414 pp., il., pl., 10 x 7, cl.
- 87 SIEDEK, RICHARD. *Studie über eine neue Formel zur Ermittlung der Geschwindigkeit des Wassers in Flüssen und Strömen; Vortrag gehalten in der Fachgruppe der Bau- und Eisenbahn-Ingenieure am 7. März 1901.* Wien, 1901. 58 p., il., tab., 9 x 6, pap.
- SLICHTER, C. S. *List of papers on the motion of ground waters and related topics.* (U. S. Geological Survey.) 1899. (See Yh-40, *Annual report, 1897-98*, Pt. 2, p. 381.)
- *Theoretical investigation of the motion of ground waters.* (U. S. Geological Survey.) 1899. (See Yh-40, *Annual report, 1897-98*, Pt. 2, p. 295.)
- SMITH, G. O. *Geology and water resources of a portion of Yakima County, Wash.* (U. S. Geological Survey. *Water Supply and Irrigation Papers.*) 1901. (See De-81, No. 55.)
- SOYKA, ISIDOR. *Die Schwankungen des Grundwassers, mit besonderer Berücksichtigung der mitteleuropäischen Verhältnisse.* 1888. (See Qb-17, v. 2, Pt. 3.)
- 138 SWITZERLAND—EIDGENÖSSISCHES HYDROMETRISCHES BUREAU. *Wassermessungs-Stationen am Rappengräbli und Sperbelgraben bei Wasen im Kanton Bern.* Bern, 1900. 4 + 2 + 2 pp., pl., tab., 13 x 9, pap.
- 140 THRESH, J. C. *Water and water supplies.* ed. 3, rev. and enl. Phil., 1901. 15 + 527 pp., il., 8 x 5, cl.
- TODD, J. E. *Geology and water resources of a portion of Southeastern South Dakota.* (U. S. Geological Survey. *Water Supply and Irrigation Papers.*) 1900. (See De-81, No. 34.)
- TURNEAURE, F. E., and H. L. RUSSELL. *Chapters on the flow of streams and ground water.* 1901. (See Dc-1054, p. 64.)
- UNITED STATES—BOARD OF ENGINEERS ON DEEP WATERWAYS. *Special water supply investigation.* 1900. (See Cd-85, v. 2, p. 571.)
- 123 WILLIAMS, G. S., C. W. HUBBELL, and G. H. FENKELL. *Experiments at Detroit, Mich., on the effect of curvature upon the flow of water in pipes.* (*Transactions, Am. Soc. C. E.*, April, 1902.) N. Y., 1902. 369 pp., il., 10 pl., 9 x 6, pap.

Db**WATER SUPPLY—WATER.****ANALYSIS.**

- ARIZONA. *River irrigating waters of Arizona, their character and effects.* R. H. Forbes. 1902. (See Yb-53, No. 44.)
- AUGUSTA, GA. *Annual report of the Board of Health; 1890.* (See Eg-108.)
- BROOKLYN, N. Y. *Mount Pleasant Laboratory.* G. C. Whipple. 1900. (See Dc-1043.)
- BURLINGTON, VT. *Report of the Water Committee upon the city water supply, together with analyses of various waters obtained by them, from competent chemists, Feb. 1896.* (See Dc-1046.)
- 45 CINCINNATI, OHIO. *Report of analyses of Ohio River water, with a supplementary report of analyses of cistern water, determining the presence of sewage and other impurities, by C. R. Stuntz; with the report of the Sanitary Committee on the public water supply.* Board of Health. Cin., 1881. 29 pp., 9 x 6, pap.
- DARIES, GEORGES. *Distributions d'eau.* (Bibliothèque du Conducteur de Travaux Publics.) 1899. (See Da-189.)

Db—(Continued).

ANALYSIS—(Continued).

- ILLINOIS RIVER.** Report on the sanitary investigations of the Illinois River and its tributaries, with special reference to the effect of the sewage of Chicago on the Des Plaines and Illinois Rivers prior to and after the opening of the Chicago Drainage Canal. Illinois-State Board of Health. 1901. (See Ee-108.)
- 28 **LONG ISLAND.** Normal chlorine map of Long Island. G. C. Whipple and D. D. Jackson. no place, 1900. pp. 145-148, map, 10 x 7, pap.
- 4a **MASON, W. P.** Water supply (considered principally from a sanitary standpoint). ed. 3. N. Y., 1902. 7 + 448 pp., il., pl., maps, 9 x 6, cl.
- MASSACHUSETTS.** Examination of water supplies. State Board of Health. 1900-01. (See Eg-7.)
- MICHIGAN.** Lower Michigan mineral waters: A study into the connection between their chemical composition and mode of occurrence. A. C. Lane. (U. S. Geological Survey. Water Supply and Irrigation Papers.) 1899. (See De-81, No. 31.)
- 52 **OHIO.** Report of an investigation of the rivers of Ohio as sources of public water supplies; by the State Board of Health; 1st-4th. 1898-1901. Note: Second report contains "First report upon the condition of the public water supplies of Ohio " which is a preliminary report upon the present condition of public water-works and to some extent their sources of supply. Columbus, 1898-1902. 4 v., il., maps, tab., 9 x 6, cl.
- OLIVE, J. A.** Analyse des eaux. no date. (See Da-187, p. 24.)
- PROVIDENCE, R. I.** Report on the condition of the Pawtuxet water, supplied to the City of Providence, R. I. J. H. Appleton. 1883. (See De-1073.)
- 54 **READING, PA.** Report of the Board of Water Commissioners to the Select and Common Councils pertaining to the purification of the water supply by filtration, including previous reports of the Board on the subject, the report of Emil L. Nuebling and Allen Hazen, also recent opinions upon filtration by Erasmus G. Smith, Wm. P. Mason and Rudolph Hering. Reading, 1896. 88 pp., il., pl., 9 x 6, cl.
- ST. LOUIS, MO.** Report of the Commission of Hydraulic Engineers on the water supply of the City of St. Louis; by Benozette Williams, George Y. Wisner and Allen Hazen. 1902. (See De-1117.)
- THRESH, J. C.** Water and water supplies. 1901. (See Da-140.)
- TURNEAURE, F. E., and H. L. RUSSELL.** Examination of water-supplies. 1901. (See De-1054, p. 107.)
- VANCOUVER, WASH.** Official reports on the water supply of Vancouver Barracks, W. T., including the cold spring water supplied by the Vancouver Water Co., with table of analyses. C. L. Heizmann. 1882. (See De-1057.)
- WASHINGTON, D. C.** Report of an investigation of the feasibility and propriety of filtering the water supply of Washington, D. C., with detailed statement of the cost of the work required. U. S.-Office of Washington Aqueduct. 1900. (See De-1023.)
- 43 **WESTON, R. S., and A. I. KENDALL.** Some common bacteria in American streams, including some new species isolated at New Orleans, La. Columbus, Ohio, 1902. 8 pp., tab., 9 x 6, pap.
- 35 **WHIPPLE, G. C.** Chlamydomonas and its effects on water supply. no place, 1900. pp. 97-102, pl., 10 x 6, pap.
- 46 —On the amount of oxygen and carbonic acid dissolved in natural waters and the effect of these gases upon the occurrence of microscopic organisms. no place, 1902. pp. 103-144, 4 pl., 9 x 6, pap.
- 38 **WHIPPLE, G. C., and D. D. JACKSON.** Comparative study of the methods used for the measurement of the turbidity of water. no place, 1900. pp. 274-294, il., tab., 10 x 7, pap.
- 42 —Method of calibrating turbidimeters. no place, 1901. pp. 285-294, il., 10 x 7, pap.
- PURIFICATION.**
- DARIES, GEORGES.** Distributions d'eau. (Bibliothèque du Conducteur de Travaux Publics.) 1899. (See Da-139.)
- 51 **FUERTES, J. H.** Water filtration works. N. Y., 1901. 18 + 283 pp., il., 19 pl., tab., 8 x 5, cl.
- HUDSON, N. Y.** Report on the efficiency and betterment of the Hudson City filter plant. G. A. Soper. 1895. (See De-1033.)
- IMBEAUX, ED.** Amélioration de l'eau naturelle. 1902. (See Da-143, v. 1, p. 133.)
- 41 **KIERSTED, WYNKOOP.** Relation of the subsiding basin to water purification and information relating to water clarification. Kansas City, no date. 31 pp., pl., 6 tab., 9 x 6, pap.

Db—(Continued).**PURIFICATION—(Continued).**

- 39 **KOYL, C. H.** Work of railroad men on the problem of pure water for steam boilers. N. Y., 1900. 42 pp., il., 7 x 4, pap.
- LOUISVILLE, KY.** Efficiency of the Warren mechanical filter as developed at the experiment station of the Louisville Water Co. G. A. Soper. 1896. (See Dc-1084.)
- LOWELL, MASS.** Report of the Water Board as to results following investigations of mechanical filters. 1889. (See Dc-399. Annual report, 1888, p. 69.)
- 4a **MASON, W. P.** Water supply (considered principally from a sanitary standpoint). ed. 8. N. Y., 1902. 7 + 448 pp., il., pl., maps, 9 x 6, cl.
- OLIVE, J. A.** Filtration des eaux. no date. (See Da-187, pp. 391, 547.)
- PROVIDENCE, R. I.** Report of the Joint Committee on the City Engineer's Department recommending a system of filtration and appropriating \$381,000 therefor. 1896. (See Dc-1081.)
- Report of the Joint Special Committee of the City Council relative to filtration, with an accompanying resolution providing for building a system of natural gravity filters and appropriating \$210,000 therefor. 1894. (See Dc-1080.)
- Report of the Joint Special Committee of the City Council to examine and report relative to the pollution of the water supply and the best method of water filtration. 1898. (See Dc-1076.)
- Report of the Joint Special Committee of the City Council upon the need and advisability of constructing a system of filters for purifying the city water supply. 1900. (See Dc-1084.)
- 54 **READING, PA.** Report of the Board of Water Commissioners to the Select and Common Councils pertaining to the purification of the water supply by filtration, including previous reports of the Board on the subject, the report of Emil L. Nuebling and Allen Hazen, also recent opinions upon filtration by Erastus G. Smith, Wm. P. Mason and Rudolph Hering. Reading, 1898. 88 pp., il., pl., 9 x 6, cl.
- 53 **RIDEAL, SAMUEL.** Water and its purification: A hand-book for the use of local authorities, sanitary officers, and others interested in water supply. ed. 2, rev. and enl. Lond., 1902. 16 + 846 pp., il., tab., 8 x 5, cl.
- ST. LOUIS, MO.** Report of the Commission of Hydraulic Engineers on the water supply of the City of St. Louis; by Benozette Williams, George Y. Wisner and Allen Hazen. 1902. (See Dc-1117.)
- 24 **SIMS, A. V.** Pure water, its value and attainment. Cedar Rapids, no date. 15 pp., il., 9 x 6, pap.
- 40 **SOPER, G. A.** Ozonization of water. no place, 1900. 19 pp., 9 x 6, pap.
- SPRINGFIELD, MASS.** Special report on the improvement of the present water supply, and an alternative new, independent supply; made by the Board of Water Commissioners to the City Council, Apr. 14th, 1902; including accompanying reports made by Percy M. Blake, Consulting Engineer, and by the State Board of Health. 1902. (See Dc-1113.)
- THRESH, J. C.** Water and water supplies. 1901. (See Da-140.)
- TURNEAURE, F. E., and H. L. RUSSELL.** Works for the purification of water. 1901. (See Dc-1054, p. 397.)
- WASHINGTON, D. C.** Purification of the Washington water supply: An inquiry held by direction of the United States Senate Committee on the District of Columbia; ed. and comp. by Charles Moore. 1901. (See Dc-1041.)
- Report of an investigation of the feasibility and propriety of filtering the water supply of Washington, D. C., with detailed statement of the cost of the work required. U. S.-Office of Washington Aqueduct. 1900. (See Dc-1023.)
- 44 —Specifications, etc., for excavation, embankment, puddle, seeding, sodding, concrete masonry, American Portland cement, sluice gates and water valves, Venturi meters, filter sand and gravel, cast-iron pipe and special castings, pressure controller valves, glazed vitrified pipe and specials, and centrifugal pumping plant for filtration beds at Washington, D. C. U. S.-Corps of Engineers. Wash., 1902. 25 pp., 14 x 8, pap. no title-page.

WATER SUPPLY—WORKS.**Dc**

- 322 **ALBANY, N. Y.** Annual report; 39th-41st, 50th-51st; for the year ending Sept. 30th, 1889-91, 1900-01. Albany, 1890-1901. 5 v., il., tab., 9 x 6, pap.
- Reports of the Special Water Commission to the Common Council recommending the Normanskill water supply. 1891. (See Dc-322, Annual report, 1891, p. 29.)

Dc—(Continued).

- 1040 **ALBUQUERQUE, N. M.** Prospectus of the Albuquerque Water Co. Denver, 1884. 22 pp., 8 x 5, pap.
- 2 **ALEXANDRIA, VA.** Proceedings of the annual meeting of the Stockholders of the Alexandria Water Co.; 1851-79. Note: Report dated Jan. 18th, 1866, covers period from Feb. 11th, 1861, to Jan. 18th, 1866. Prior to 1866 title reads, *Annual report of the President and Directors to the Stockholders at the annual meeting.* Alexandria, 1851-79. 24 v., 8 x 6, 7 x 4, pap.
- ALLEGHENY, PA.** Annual report of the Superintendent of Waterworks; 1875-76, '81-83, '87, '98. (See Oa20-2.1.)
- 1102 **ALTOONA, PA.** Annual report of the Board of Water Commissioners to the Select and Common Councils; 28th-29th; for the fiscal year ending Apr. 1st, 1900-01. Note: Report for 1901 contains a résumé of the important work of the Water Department. Altoona, 1900-01. 2 v., il., 9 x 6, cl.
- 1089 **AMSTERDAM, N. Y.** Annual report of the Board of Water Commissioners; 1st-7th, 19th-20th; for the fiscal year ending May 1st, 1882-83, 1900-01. Amsterdam, 1882-1901. 8 v., 9 x 6, pap.
- ARLINGTON, MASS.** Reports of the Town Officers; 1874-77, '79-85. (See Oa23-2.1.)
- 6 **ATLANTA, GA.** Annual report of the Board of Water Commissioners; 9th, 11th, 17th, 19th-27th; 1883, '85, '91, '93-1901. Note: For Annual report, 1881, see Oa32-2.1. Atlanta, 1883-1901. 12 v., pl., 9 x 6, pap.
- 334 **ATLANTIC CITY, N. J.** Annual report of the Board of Water Commissioners to the City Council; 5th-6th; for the year ending Aug. 1st, 1900-01. Atlantic City, 1900-01. 2 v., il., pl., 9 x 6, pap.
- 290 —Report on the proposed 30-inch force main, of W. C. Hawley, to the Board of Water Commissioners; with the supplementary report of the Consulting Engineer, Emil Kuichling. Atlantic City, 1900. 29 pp., il., 9 x 6, pap.
- 1038 **ATTLEBOROUGH, MASS.** Annual reports of the Water Supply District; 1876-83. Attleborough, 1879-83. 2 v., 9 x 6, pap.
- 1069 —Report of the Water Department; 1st-9th; 1893-1901. Attleborough, 1894-1902. 9 v., 9 x 6, pap.
- Reports of the Officers of the Fire and Water Departments of Fire District No. 1, for the year ending April 30th, 1891-92. (See Oa35-2.1.)
- AUBURN, ME.** Annual report of the Board of Water Commissioners; 1895. (See Oa33-2.1.)
- 1101 **AUBURN, N. Y.** Report of the Water Board to the Mayor and Common Council; 1901. Auburn, 1902. 1 v., 9 x 6, pap.
- AUGUSTA, GA.** Annual report of the Board of Health; 1880. (See Eg-106.)
- Mayor's message, city officers' reports and accompanying documents, with report of Board of Health; 1884-88, '90-96, '98-1901. (See Oa40-2.1.)
- AUSTIN, TEX.** Austin dam. T. U. Taylor. (U. S. Geological Survey. Water Supply and Irrigation Papers.) 1900. (See De-81, No. 40.)
- 9 **BALTIMORE, MD.** Annual report of the Water Department to the Mayor and City Council; 1900-01. Note: For Annual reports, 1895-97, see Ob5-3.1. Balt., 1901-02. 2 v., 9 x 6, pap.
- 422 **BANGOR, ME.** Annual report of the Water Board for the fiscal year ending Feb. 28th, 1902. Note: For Annual reports, 1884-85, '87-88, see Ob10-2.1. Bangor, 1902. 1 v., 9 x 6, pap.
- 10 **BAY CITY, MICH.** Report of the Superintendent of Water-Works to the Board of Water Commissioners; 12th, 16th-30th; 1883, '87-1901. Bay City, 1884-1902. 16 v., 9 x 6, pap.
- 1047 **BETHLEHEM, PA.** Historical sketch of the Bethlehem Water-Works. Robert Rau. Bethlehem, 1877. 10 pp., 7 x 5, pap.
- BEVERLY, MASS.** Report of the Superintendent of the Water-Works; 1883, '85. (See Ob17-2.1.)
- 12 **BINGHAMTON, N. Y.** Annual report of the Board of Water Commissioners to the Common Council; 1880-84, '86-90, '92-1901. Binghamton, 1880-1901. 20 v., 9 x 6, pap.
- BLOOMINGTON, ILL.** Annual report of the Water Board for the fiscal year ending Apr. 30th, 1883, '85. (See Ob30-2.1.)
- BOSTON, MASS.** Annual report of the Engineering Department; 1894-1900. (See Ob35-3.1.)
- 1112 —Annual report of the Metropolitan Water and Sewerage Board of Massachusetts; 1st; 1901. Bost., 1902. 1 v., pl., maps, tab., 9 x 6, cl.
- 505 —Annual report of the Metropolitan Water Board of Massachusetts; 6th; 1900. Bost., 1901. 1 v., pl., maps, 9 x 6, cl.
- Boston Belting Co. vs. City of Boston: Testimony and arguments. Note: Suit relates to diversion of water from Stony Brook. 1898-1901. (See Dd-39.)

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- Commonwealth of Massachusetts, Supreme Judicial Court; Nashua River Paper Co., Petitioner, vs. Commonwealth of Massachusetts: Testimony. Note: Suit relates to the amount of damage caused by the construction of the Metropolitan Water-Works for the City of Boston. 1901-02. (See Dd-38.)
- 1139 —Plans relating to Sections 4, 5, 6, 7, 9 and 10 of the Nashua Aqueduct. Mass.—Metropolitan Water Board. no place, 1896. unpag., 11 pl., 10 x 8, pap.
- 1142 —Plans relating to Sections 2, 3, 4, 5, 6, 12 and 18 of the Weston Aqueduct. Mass.—Metropolitan Water and Sewerage Board. no place, 1901. unpag., 15 pl., 10 x 8, pap.
- 1137 —Specifications for building pumping engines for the Chestnut Hill Low-Service Pumping Station in Boston. Mass.—Metropolitan Water Board. no place, 1897. 34 pp., 10 x 8, pap.
- 1141 —Specifications for building Sections 2, 5, 18, of the Weston Aqueduct. Mass.—Metropolitan Water and Sewerage Board. no place, 1901. 3 v., 10 x 8, pap.
- 1138 —Specifications for excavating soil from Section 6 of the Wachusett Reservoir and building the easterly portion of the North Dike, Boylston, Clinton and West Boylston, Mass. Mass.—Metropolitan Water Board. no place, 1899. 45 pp., 3 pl., 10 x 8, pap.
- 1140 —Specifications for Sections 2-5, 7-8, 10-11 of the Nashua Aqueduct. Mass.—Metropolitan Water Board. no place, 1896. 8 v., pl., 10 x 8, pap.
- 1044 —Water supply and work of the Metropolitan Water District, Boston and its vicinity, in the Commonwealth of Massachusetts, U. S. A. Mass.—Metropolitan Water Board. Bost., 1900. 43 pp., 37 pl., map, tab., 9 x 6, pap.
- 1048 **BRADFORD, PA.** Annual report of the Board of Water Commissioners; 4th, 20th; 1885, 1901. Bradford, 1885-1902. 2 v., 9 x 6, pap.
- 1035 **BRANDON, VT.** Report of the Prudential Committee, Fire District No. 1; 1878-79, '81-83. Brandon, 1880-83. 4 v., 9 x 6, pap.
- 1045 **BRANTFORD, ONT.** Annual report of the Brantford Water Works Co.; 13th-14th; for the fiscal year ending May 31st, 1883-84. no place, 1883-84. 2 v., 10 x 8, pap.
- 1050 **BRENNHAM, TEX.** Documents relating to the organization of the Brenham Water Co. no place, 1884-86. 32 pp., 8 x 5, pap.
- BRIDGEPORT, CONN.** Annual report relating to the water supply of the city; 1881. (See Ob40-2.1.)
- 22 —Report of the Superintendent of the Bridgeport Hydraulic Co. to the Directors and Stockholders; 1879, '81-83. Bridgeport, 1879-83. 4 v., 7 x 5, pap.
- 28 **BRIDGETON, N. J.** Annual report of the Water Committee, accompanied by the report of the Superintendent and City Treasurer; 6th-8th, 13th, 15th-21st; 1883-85, '90, '92-98. Note: Beginning with 1890, title reads Annual report of the Water and Fire Departments. For reports subsequent to 1898, see Ob41-2.1. Bridgeton, 1884-99. 11 v., 8 x 5, pap.
- 1125 **BRISTOL, ENGLAND.** Improvement of Bristol: A report setting forth a plan proposed by the Town Improvement Co. for carrying out the chief recommendations of Her Majesty's Commissioners of Inquiry into the means of improving the health of the population of large towns and densely populous districts. Bristol, 1846. 52 pp., tab., 9 x 6, pap.
- 1067 **BROCKTON, MASS.** Annual report of the Water Commissioners; 1881, '83-85, '93, '97-1901. Brockton, 1882-1901. 10 v., 9 x 6, pap.
- 1066 —Contract, specifications, etc., for the building of a reservoir dam for the Town of Brockton, Mass. Note: For information in regard to the letting of the contract, see Ob49-2.1, Annual report, 1880, p. 78. no place, 1880. 13 pp., pl., 9 x 6, pap.
- 397 **BROOKLINE, MASS.** Annual report of the Water Board; 10th-26th; 1885-1901. Note: For Annual report 1879, see Ob44-2.1. Report for 1891 contains water ordinances, regulations and rates. Brookline, 1886-1902. 17 v., 9 x 6, pap.
- 1062 —Report of the Special Committee on extension of the water-works. Brookline, 1888. 43 pp., pl., 9 x 6, pap.
- 1061 —Report of the Special Committee on the present and future water supply. Brookline, 1888. 7 pp., 9 x 6, pap.
- 1063 —Report of the Water Board upon the completion of the plant of the high-service system. Brookline, 1885. 32 pp., pl., 9 x 6, pap.
- BROOKLYN, N. Y.** Annual report of the Department of City Works; 1892-93, '96. (See Ob45-2.1.)
- 445 —Annual report of the Nassau Water Department to the Common Council; 2d, 5th-6th; 1861, '64-65. Brooklyn, 1862-66. 3 v., 9 x 6, pap., cl.
- 1119 —Appendix to the twelfth annual report of the Nassau Water Department; reprinted to give the sketches of the Ridgewood Engines, omitted in the first edition, and some explanatory notes. N. Y., 1873. 39 pp., pl., tab., pap.

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- 1127 — Brooklyn City Water-Works: Distribution: Schedule of streets explanatory of the size, weight and class of pipe to be laid in each street. no place, no date. 84 pp., 10 x 7, pap. no title-page.
- 1151 — Contract and specifications for laying the pipes & appurtenances of the forty-eight-inch main and certain branch-pipes connecting therewith. Board of Water Commissioners. no place, 1866. 9 pp., 14 x 9, pap. no title-page.
- 1043 — Mount Prospect Laboratory. G. C. Whipple. no place, 1900. pp. 106-130, il., 9 x 6, pap.
- 1128 — Proposed purchase of the plant, franchises and other property of the Long Island Water Supply Co.: Message of the Hon. Alfred C. Chapin, Mayor, and Hon. Theo. F. Jackson, Comptroller, June 8th, 1891. no place, 1891. 39 pp., 9 x 6, pap.
- 1124 — Report of Special Committee of the Common Council on communication of Henry Ruggles to supply the city with water. Brooklyn, 1864. 12 pp., 9 x 6, pap.
- 1123 — Report of the Committee on Water and Drainage in the matter of the acts passed by the Legislature in reference to the supply of the City of Brooklyn with water, and the subject of water rents; submitted by the Chairman, Ald. John A. Dayton, to the Common Council, Oct. 10th, 1859. Brooklyn, 1859. 68 pp., 9 x 6, pap.
- 1129 — Statement of the Nassau Water Co. to the Common Council, Apr. 18th, 1857. Brooklyn, 1857. 12 pp., 9 x 6, pap.
- BUFFALO, N. Y.** Annual report of the Bureau of Water-Works; 1899-1900. (See Ob50-6.1.)
- 25 **BURLINGTON, IA.** Report of the Superintendent and Secretary of the Burlington Water Co.; 2d; 1880-81. Burlington, 1882. 1 v., pl., 9 x 6, pap.
- 1049 **BURLINGTON, N. J.** Annual report of the Board of Water Commissioners; 4th; for the year ending Mar. 1st, 1881. Burlington, 1881. 1 v., 9 x 6, pap.
- 26 **BURLINGTON, VT.** Annual report of the Water Department; 18th-19th, 21st-35th; 1884-86, '87-1901. Note: Report for 1887 contains rules and regulations and city ordinance relating to the Water Department. Burlington, 1886-1901. 17 v., pl., 9 x 6, pap.
- On the sanitary condition, past and present, of the water supply of Burlington Vt. W. T. Sedgwick. 1896. (See Dc-26, Annual report, 1895, p. 19.)
- 1046 — Report of the Water Committee upon the city water supply, together with analyses of various waters obtained by them, from competent chemists, Feb., 1886. no place, 1886. 43 pp., 9 x 6, pap.
- 1110 — Service rates and provisions relative to collection of service rates, both schedule and meter, of the Burlington City Water-Works, June, 1902. City Council. Burlington, 1902. unpagcd, 9 x 6, pap.
- 1068 **CAMBRIDGE, MASS.** Annual report of the Water Board; 1st, 3d, 7th, 9th, 11th-22d, 24th, 26th-28th, 30th-37th; 1865, '67, '71, '73, '75-86, '89, '90-92, '94-1901. Cambridge, 1872-1901. 28 v., 9 x 6, pap.
- Special acts of the Legislature of Massachusetts relating to Cambridge Water-Works. 1882-85. (See Dc-1068, Annual report, 1881, p. 43; 1884, p. 52.)
- CHICAGO, ILL.** Annual report of the Bureau of Engineering; 1900-01. (See Oc35-2.1.)
- CHICOPEE, MASS.** Annual report of the Board of Water Commissioners; 1896-97, '99. (See Oc40-2.1.)
- 1106 **CINCINNATI, OHIO.** Annual report of the Board of Trustees, "Commissioners of Waterworks"; 1st-5th; 1897-1901. Cin., 1898-1902. 5 v., tab., 9 x 6, cl.
- Annual report of the Trustees of the Water-Works; 1860. (See Oc45-2.1.)
- 225 — Annual report of the Water Department; 1872, '85, '87-1901. Note: Reports for 1872, '99-1901 contain ordinances, by-laws, rules and regulations pertaining to the management of the Water-Works Department. Cin., 1873-1902. 17 v., tab., 9 x 6, pap.
- 1143 — Specifications, etc., for the construction of a tunnel extension and shafts for supplying water to the Western Pumping Station. Board of Trustees, "Commissioners of Waterworks." Cin., 1900. 30 pp., 14 x 8, pap.
- 1144 — Specifications, etc., for the pumping machinery for the California Pumping Station. Board of Trustees, "Commissioners of Waterworks." Cin., 1900. 29 pp., 14 x 8, pap.
- COLUMBUS, OHIO.** Annual report of the Water Department; 1898. (See Oc60-3.1.)
- Report on the construction of the proposed concrete masonry dam for the water supply of the City of Columbus. J. D. Schuyler. 1899. (See Oc60-3.1, Annual report, 1898, p. 211.)
- 31 **CONCORD, N. H.** Annual report of the Board of Water Commissioners; 8th-9th, 12th-30th; 1879-80, '83-1901. Note: Reports for 1879 and 1891 contain rules and regulations. Concord, 1890-1902. 21 v., pl., 9 x 6, pap.

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- CONNECTICUT.** Report on the investigations of rivers pollution and water supplies; 1900-01. State Board of Health. (See Eg-94.)
- 40 **DAYTON, OHIO.** Annual report of the Trustees of the Water-Works; together with the reports of the Superintendent, Secretary and Engineer; 13th-14th. 16th-21st. 23d-32d; 1882-83, '85-90, '92-1901. Dayton, 1883-1902. 18 v., por., pl., 9 x 6, pap., cl.
- 439 **DETROIT, MICH.** Annual report of the Board of Water Commissioners to the Common Council; together with reports of officers of the Board; 49th-50th; for the fiscal year ending June 30th, 1901-02. Detroit, 1901-02. 2 v., pl., 9 x 6, pap.
- DOVER, N. H.** Annual report of the Water Commissioners; 1889-91, '97, 1900-01. (See Od50-2.1.)
- DULUTH, MINN.** Annual report of the Board of Water and Light Commissioners; 1900. (See Od60-4.1.)
- 52 **ERIE, PA.** Annual report of the Water Commissioners; 1880, '82, '84-87, '93, '95-1901. Erie, 1881-1902. 14 v., il., 9 x 6, pap.
- 419 **FALL RIVER, MASS.** Annual report of the Watuppa Water Board to the City Council; 7th, 11th-12th, 14th-21st, 23d-27th; 1880, '84-85, '87-94, '98-1900. Note: For report, 1882, see Of10-2.1. Fall River, 1881-1901. 16 v., pl., tab., 9 x 6, pap.
- Opinion of Chief Justice Morton of the Supreme Judicial Court of Massachusetts in the Fall River water case. 1889. (See Dc-419, Annual report, 1889, p. 49.)
- 1184 —Report of the Reservoir Commission to the Common Council; July, 1902. Fall River, 1902. 1 v., pl., tab., 9 x 6, cl.
- 55 **FITCHBURG, MASS.** Annual report of the Water Commissioners; 5th, 13th, 15th, 17th-20th; 1880, '85, '87, '89-1901. Note: For reports, 1881, '84, see Of25-3.1. Fitchburg, 1881-1902. 16 v., 9 x 6, pap.
- 1111 **FORT WORTH, TEX.** Annual report of the Superintendent and Secretary of Water-Works for fiscal year ending Mar. 21st, 1897, '99-1902. Fort Worth, 1897-1902. 5 v., il., 9 x 6, pap.
- FRANCE.** État actuel des distributions d'eau en France. A. Debaue. 1897. (See Da-142, v. 2, p. 264.)
- 1131 **FRANKLIN, N. H.** Report of the Board of Water Commissioners; 1893. Note: For report, 1899, see Of50-2.1. Franklin Falls, 1893. 1 v., 9 x 6, pap.
- GENERAL.**
- AMERICAN WATER-WORKS ASSOCIATION.** Report of proceedings of the annual meeting; 1888, 1901-02. (See Sa3-6.1.)
- 1096 **BARR, W. M.** Pumping machinery: A practical hand-book relating to the construction and management of steam and power pumping machines. Phil., 1900. 447 pp., il., pl., tab., 9 x 6, cl.
- 1100 **BILLINGS, W. R.** Some details of water-works construction. ed. 3. N. Y., 1898. 96 pp., il., tab., 9 x 6, cl.
- 1119 **BROOKLYN, N. Y.—NASSAU WATER DEPARTMENT.** Appendix to the twelfth annual report; reprinted to give the sketches of the Ridgewood Engines, omitted in the first edition, and some explanatory notes. N. Y., 1878. 39 pp., pl., tab., pap.
- DARIES, GEORGES.** Distributions d'eau. (Bibliothèque du Conducteur de Travaux Publics.) 1899. (See Da-139.)
- GOODHUE, W. F.** Water-works systems for municipalities. 1900. (See Oa1-11, p. 53.)
- 1039 **GRIMSHAW, ROBERT.** Pump catechism: A practical help to runners, owners and makers of pumps of any kind, covering the theory and practice of designing, constructing, erecting, connecting and adjusting. N. Y., 1887. 233 pp., il., 6 x 4, cl.
- 1056 **HAZLEHURST, J. N.** Towers and tanks for water-works: The theory and practice of their design and construction. N. Y., 1901. 9 + 216 pp., il., tab., 9 x 6, cl.
- HEIM, J. B.** Thawing frozen water pipes by electricity. 1900. (See Dc-80, Annual report, 1899, p. 37.)
- 1122 **HITE-SMITH, V. D.** Engineering treatise on water-works construction. Norfolk, 1902. 26 pp., 7 x 5, pap.
- IMBEAUX, ED.** L'alimentation en eau et l'assainissement des villes; compte rendu des derniers progrès et de l'état actuel de la science sur ces questions. 1902. (See Da-143.)
- KNIGHT, C. W.** Flood-water channel and reservoirs of the Altoona, Pa., City Water-Works. 1900. (See Dc-1102, Annual report, 1900, p. 23.)
- LEGER, ALFRED.** Aqueducs aux temps des Romains. 1875. (See Ca-84, p. 551.)
- 1055 **MCPHERSON, J. A.** Waterworks distribution: A practical guide to the laying out of systems of distributing mains for the supply of water to cities and towns. Lond., 1901. 14 + 154 pp., il., map, 8 x 6, cl.

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GENERAL—(Continued).

- MASON, W. P. Water supply (considered principally from a sanitary standpoint.) 1902. (See Db-4a.)
- 1091 MUELLER, O. H., Jr. Das Pumpenventil: Ein Buch für Konstrukteure. Leipzig, 1900. 9 + 151 pp., il., 9 x 6, pap.
- 1070 NATIONAL METER CO., pub. Accuracy tests of large Gem meters. N. Y., 1901. 27 pp., il., pl., tab., 9 x 6, pap.
- NEW ENGLAND WATER-WORKS ASSOCIATION. Journal; Jan.-June, 1900. (See Sa3-14.1.)
- NEW YORK STATE—BUREAU OF STATISTICS OF LABOR. Ownership and operation of electric light and power, gas and water plants. 1897. (See Zj-4, Annual report, 1897, p. 497.)
- OLIVE, J. A. Traités d'hydraulique; alimentation et distribution d'eau, jauges, établissements de fontaines publiques. no date. (See Da-187.)
- 1147 PENCE, W. D. Stand-pipe accidents and failures: A chronological record of accidents to and failures of water-works stand-pipes in the United States, with full discussion and assignment of theories; also a discussion of current practice in specifications for stand-pipes and of other related matters. N. Y., 1896. 7 + 196 pp., il., pl., 7 x 4, pap.
- SCHUYLER, J. D. Reservoirs for irrigation, water-power, and domestic water-supply; with an account of various types of dams and the methods and plans of their construction; together with a discussion of the available water-supply for irrigation in various sections of arid America; the distribution, application and use of water; the rainfall and run-off, the evaporation from reservoirs; the effect of silt upon reservoirs, etc. 1901. (See Da-62.)
- THRESH, J. C. Water and water supplies. 1901. (See Da-140.)
- 1025 TORONTO, ONT.—COMMITTEE ON WATER-WORKS. Toronto Water-Works: New pumping engine: Reports of experts; tenders, specifications, etc. Note: Gives general information in regard to pumps and pumping engines. no place, 1884. 31 pp., tab., 9 x 6, pap.
- 1054 TURNHAURE, F. E., and H. L. RUSSELL. Public water-supplies: Requirements, resources, and the construction of works; with a chapter on pumping machinery, by D. W. Mead. N. Y., 1901. 14 + 746 pp., il., 101 tab., 9 x 6, cl.
- 1184 GLASGOW, SCOTLAND. Report by the Water Committee to the Commissioners under the Glasgow Corporation Water-Works Acts, with abstract statement and balance sheet of the Glasgow water account, including the river supply account, for the year ending May 31st, 1894. Glasgow, 1894. 1 v., 18 x 8, pap.
- 1104 GLOUCESTER, MASS. Annual report of the Water Commissioners; 1901. Gloucester, 1902. 1 v., 9 x 6, pap.
- GLOVERSVILLE, N. Y. Annual report of the Board of Water Commissioners; 1901. (See Og25-2.1.)
- 1182 GRAND RAPIDS, MICH. General specifications for obtaining a new or improved water supply for the City of Grand Rapids, Mich. Board of Public Works. Grand Rapids, 1901. 72 pp., 9 x 6, pap.
- 1107 HAMILTON, ONT. Annual report of the Manager of Water-Works and Chief Engineer of Sewage Disposal Works; 1901. Hamilton, 1902. 1 v., il., por., 10 x 7, pap.
- HARRISBURG, PA. Annual report of the Water Commissioners; 1893. (See Oh15-2.1.)
- 59 HARTFORD, CONN. Annual report of the Board of Water Commissioners to the Court of Common Council; 11th-13th, 21st-22d, 28th, 32d, 34th-36th, 43d-45th, 47th; for the year ending Mar. 1st, 1865-67, '75-76, '82, '86, '88-93, '97-99, 1901. Note: Annual report, 1888, contains rules and regulations. For report 1884, see Oh20-3.1. Hartford, 1865-1901. 17 v., por., pl., 9 x 6, pap.
- HAVANA, CUBA. Annual report of the Military Governor; July, 1899-May, 1900. (See Oh23-2.1.)
- Report of the Chief Engineer, Division of Cuba; July, 1899-Dec., 1900. (See Oh23-3.1.)
- 1115 HAVERHILL, MASS. Annual report of the Board of Water Commissioners; 1st-10th; 1892-1901. Haverhill, 1892-1902. 10 v. in 8, il., tab., 9 x 6, pap.
- 61 HOLYOKE, MASS. Annual report of the Board of Water Commissioners; 1901. Note: For reports 1886-90, '94, '96-97, see Oh50-3.1. Holyoke, 1902. 1 v., 9 x 6, pap.
- 62 HUDSON, N. Y. Annual report of the Water Commissioners; 7th-21st, 23d; 1879-93, '95. Note: For report on the water-works, 1899, see Oh55-2.1. Hudson, 1879-96. 16 v., 9 x 6, pap.
- 1093 —Report on the efficiency and betterment of the Hudson City filter plant. G. A. Soper. Troy, 1895. 23 pp., il., 7 x 5, pap.
- HYDE PARK, ILL. Annual report of the Water Department for the year ending Apr. 1st, 1884-86. (See Oh60-2.1.)

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- 1163 **ITALY.** Relazione sul progetto dell' acquedotto Pugliese presentato dal Regio Ufficio Speciale del Genio Civile. Ministero dei Lavori Pubblici. Contents: v. 1, Testo. v. 2, Tavole. Roma, 1900. 2 v., pl., tab., 13 x 9, pap.
- JACKSONVILLE, FLA.** Annual report of the Board of Trustees for the Water-Works and Improvement Bonds; 1901. (See Oj3-2.1.)
- 1114 **JERSEY CITY, N. J.** Acts of the Legislature in relation to supplying Jersey City and places adjacent with pure and wholesome water; passed Mar. 18th, 1851, and Mar. 25th, 1852. Jersey City, 1852. 16 pp., 9 x 6, pap.
- Annual report of the Board of Street and Water Commissioners; 1895-1901. (See Na-141.)
- Annual report of the Chief Engineer of the Board of Public Works; 1880. (See Oj15-2.1.)
- 67b —Tariff of rates and regulations for the use of the Passaic water; also, rules regulating the plumbing of houses and the tapping of sewers. Board of Water Commissioners. Jersey City, 1863. 16 pp., 9 x 6, pap.
- 70 **JOHNSTOWN, N. Y.** Annual report of the Board of Water Commissioners; 1880-81, '88-96, '98-1901. Note: Reports, 1886-89, contain rules and regulations. Johnstown, 1883-1902. 20 v. in 19, 9 x 6, pap.
- JOLIET, ILL.** Annual report of the Water Department; 1899-1901. (See Oj20-2.1.)
- 1108 **KANSAS CITY, MO.** Annual report of the Water Department for the fiscal year ending Apr. 16th, 1898, 1900. Kansas City, 1898-1900. 2 v., 9 x 6, pap.
- 1188 **KEENE, N. H.** Annual report of the Water and Sewer Commissioners; 1893. Note: For reports, 1881-84, '89, '92, '95-96, see Ok20-2.1. Keene, 1894. 1 v., 9 x 6, pap.
- 374 **LAWRENCE, MASS.** Annual report of the Water Board to the City Council; 8th-9th, 11th-14th, 16th-17th, 19th-25th; 1883-84, '86-89, '91-92, '94-1900. Lawrence, 1884-1901. 15 v., il., 9 x 6, pap.
- LEBANON, N. H.** Annual report of the Water Commissioners, Chief Engineer and Treasurer of Lebanon Centre Village Fire Precinct for the year ending Apr. 1st, 1891-95, '97-99. (See Ol18-2.1.)
- 74 **LEOMINSTER, MASS.** Annual report of the Water Board for the fiscal year ending Feb. 1st, 1877, 1902. Leominster, 1877-1902. 2 v., 9 x 6, pap.
- LITTLE FALLS, N. Y.** Annual report of the Water Commissioners; 1901. (See Ol35-2.1.)
- 328 **LIVERPOOL, ENGLAND.** Annual report of the Engineer of the Water Committee as to the progress of the works; 1900-01. Liverpool, 1901-02. 2 v., il., 9 x 6, cl.
- 873 **LONDON, ENGLAND.** London water supply. Walter Hunter. Lond., 1900. pp. 475-496, 10 x 7, pap.
- 75 **LONDON, ONT.** Annual report of the Board of Water Commissioners; 6th-7th, 9th-23d; 1884-85, '87-1901. Lond., 1884-1901. 17 v., 9 x 6, pap.
- 466 **LOUISVILLE, KY.** Annual report of the President and Directors of the Louisville Water Co. to the Stockholders; 80th-42d; 1837-99. Louisville, 1888-1900. 13 v., il., 9 x 6, pap.
- 1161 —Charter, by-laws, etc., of the Louisville Water Co. Louisville, 1856. 16 pp., 9 x 6, b. p.
- 1034 —Efficiency of the Warren mechanical filter as developed at the experiment station of the Louisville Water Co. G. A. Soper. Bost., 1896. 24 pp., il., 4 tab., 9 x 6, pap.
- 1162 —Extension of the Louisville Water-Works. Louisville, 1876. 21 pp., tab., 9 x 6, b. p.
- 390 **LOWELL, MASS.** Annual report of the Water Board to the City Council; with reports of the Superintendent and City Engineer; 15th-16th, 20th, 28th-29th; 1887-88, '92, 1900-01. Lowell, 1888-1902. 5 v., 9 x 6, pap.
- LYNCHBURG, VA.** Annual report of the City Engineer; July, 1877-78, July, '79-Jan., '86. (See Ol55-2.1.)
- Annual report of the Committee on Water-Works to the City Council; Feb., 1882-83. (See Ol55-2.1, Reports, 1882-83, p. 65.)
- 381 **LYNN, MASS.** Annual report of the Public Water Board; 30th; 1901. Note: For report, 1890, see Ol60-4.1. Lynn, 1902. 1 v., 9 x 6, pap.
- 80 **MADISON, WIS.** Annual report of the Board of Water Commissioners; together with reports of Superintendent and Secretary; 1st-2d, 4th-19th; 1883-84, '86-1901. Madison, 1884-1901. 17 v., pl., maps, 9 x 6, pap.
- 81 **MALDEN, MASS.** Reports of the Water Commissioners, Water Registrar and Superintendent; 1873-75, '80, '82-89, 1901. Note: For reports, 1892, '96-97, see Om15-3.1. Bost., 1873-1901. 13 v., 9 x 6, pap.
- 82 **MANCHESTER, N. H.** Annual report of the Board of Water Commissioners; 11th-12th, 14th, 17th-30th; 1882-83, '86, '88-1901. Manchester, 1883-1902. 17 v., por., pl., 9 x 6, pap.

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- 1109 — Report of the Engineer appointed by the Board of Water Commissioners, to devise a plan for a supply of water to the higher parts of the City. Manchester, 1890. 20 pp., 9 x 6, pap.
- 1096 **MARLBOROUGH, MASS.** Annual report of the Water Commissioners; 1st-8th, 10th-19th; 1888-90, '92-1901. Marlborough, 1884-1902. 18 v., 9 x 6, pap.
- 86 **MARSHALLTOWN, IA.** Annual report of the Water-Works Department; 5th, 7th; 1881, '88. Note: For report, 1884, see Om17-2.1. Marshalltown, 1882-84. 2 v., 9 x 6, pap.
- 1112 **MASSACHUSETTS.** Annual report of the Metropolitan Water and Sewerage Board; 1st; 1901. Bost., 1902. 1 v., pl., maps, tab., 9 x 6, cl.
- 505 — Annual report of the Metropolitan Water Board; 6th; 1900. Bost., 1901. 1 v., pl., maps, 9 x 6, cl.
- Annual report of the State Board of Health; 1899-1900. (See Eg-7.)
- 1097 **McKEESPORT, PA.** Annual report of the Board of Water and Lighting Commissioners to the City Councils; 3d, 13th-19th; 1885, '95-1901. McKeesport, 1886-1901. 8 v., 9 x 6, pap.
- 87 **MEDFORD, MASS.** Annual report of the Water Commissioners; 11th-13th, 15th-20th, 22d-32d; 1880-82, '84-89, '91-1901. Bost., 1881-1902. 20 v., pl., 9 x 6, pap.
- Mayor's address to the City Council; the City Government, the financial statements, and the annual reports; 1892-94. (See Om20-2.1.)
- 88 **MELROSE, MASS.** Report of the Board of Water Commissioners; 1882-83, '85-88, '90-98. Note: For subsequent reports on water supply, see Om22-2.1 and Om22-3.1. Melrose, 1883-'99. 15 v., 9 x 6, pap.
- 90 **MERIDEN, CONN.** Annual report of the Water Department; 1881-85. Meriden, 1881-85. 5 v., 9 x 6, pap.
- 92 **MIDDLETOWN, CONN.** Annual report of the Board of Water Commissioners; 16th, 21st-36th; 1881, '86-1901. Note: For Annual reports, 1873-79, see Om35-2.1. Middletown, 1882-1902. 17 v., 9 x 6, pap.
- 1081 **MIDDLETOWN, N. Y.** Annual report of the Board of Water Commissioners; 33d-34th; for the year ending Jan. 31st, 1900-01. Middletown, 1900-01. 2 v., il., 9 x 6, pap.
- 1029 — Report on the source of water supply for the City of Middletown, N. Y. W. R. Hill. Note: Report to the Board of Water Commissioners. N. Y., 1900. 7 pp., 9 x 6, pap.
- 1080 — Schedule of water rents for rated and metered consumers; together with brief extracts from the rules and ordinances of the Water-Works Department, with amendments thereto. Middletown, 1900. unpagd, 6 x 4, pap.
- MILWAUKEE, WIS.** Annual report of the Board of Public Works; 1899-1900. (See Om40-4.1.)
- MINNEAPOLIS, MINN.** Annual report of the City Engineer; 1900-01. (See Om45-3.1.)
- MONTGOMERY, ALA.** Annual report of the Superintendent of Water-Works; 1898. (See Om53-2.1.)
- 266 **MONTREAL, QUE.** Annual report of the Superintendent of the Water-Works Department; 1886, '89-1900. Montreal, 1887-1901. 13 v., 9 x 6, pap.
- Reports on the Corporation accounts; reports of the Chiefs of Departments; 1898-99. (See Om55-2.1.)
- 1092 **NAPLES, ITALY.** Di alcune recenti esperienze sui grandi sifoni da Cancellò a Napoli nell' Acquedotto di Serino. Udalrigo Masoni. Napoli, 1901. 10 pp., il., 11 x 8, pap.
- NASHVILLE, TENN.** Report of the Water-Works Department; 1901. (See Om10-3.1.)
- 95 **NATICK, MASS.** Annual report of the Board of Water Commissioners; 9th-10th; 1882-83. Natick, 1883-84. 2 v., 9 x 6, pap.
- 1120 **NEW BEDFORD, MASS.** Act to provide a further supply of water for the City of New Bedford. Mass.-General Court. no place, 1873. 4 pp., 9 x 6, pap.
- 299 — Annual report of the Water Board to the City Council; 13th, 15th, 17th-32d; 1882, '84, '86-1901. New Bedford, 1883-1902. 18 v., pl., tab., 9 x 6, pap.
- NEW BRITAIN, CONN.** Annual report of the Mayor and the several departments of the city to the Common Council for the year ending Apr. 1st, 1885. (See Om16-2.1.)
- 97 — Annual report of the Water Commissioners; 25th-26th, 43d-44th; for the year ending Mar. 31st, 1882-83, 1900-01. New Britain, 1882-1901. 4 v., 9 x 6, pap.
- 99 **NEW BRUNSWICK, N. J.** Annual report of the Water Commissioners to the Common Council; 20th; 1901. New Brunswick, 1902. 1 v., 9 x 6, pap.
- 100 **NEW LONDON, CONN.** Annual report of the Board of Water Commissioners; 13th-16th, 18th, 24th-25th, 27th-31st; 1884-87, '89, '95-96, '98-1902. New London, 1885-1902. 12 v., 9 x 6, pap.

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- 102 **NEW ORLEANS, LA.** Annual report of the New Orleans Water Works Co. to the Board of Directors; 5th-23d; for the year ending Mar. 31st, 1888-1901. New Orleans, 1888-1901. 19 v., 9 x 6, pap.
- 1089 **NEW YORK, N. Y.** Address in favor of retaining the present Murray Hill Reservoir. G. B. Butler. N. Y., 1878. 20 pp., 9 x 6, pap.
- 627 — Annual report of the Croton Aqueduct Department made to the Common Council; 5th, 8th-10th; 1853, '56-58. N. Y., 1854-59. 4 v., 9 x 6, cl.
- Annual report of the Department of Public Works; 1893, '95, '96. (See On25-8.1.)
- 1098 — Annual report of the Department of Water Supply; 1st; 1898. N. Y., 1899. 1 v., tab., 9 x 6, cl.
- Contract and specifications relating to the new reservoir at Yorkhill. Croton Aqueduct Department. 1858-59. (See Dc-627, Annual report, 1857, p. 75, and 1858, p. 67.)
- Facts relating to the water supply of the City of New York, 1774-1856. Croton Aqueduct Department. 1858. (See Dc-627, Annual report, 1857, p. 21.)
- 1136 — Form of contract for building a pumping plant in the engine room and Shaft No. 25 of the New Croton Aqueduct near 179th Street and Amsterdam Ave., New York City. Aqueduct Commissioners. N. Y., 1901. 37 pp., 10 x 8, pap.
- 1027 — Hon. B. B. Odell, Jr., and Hon. J. B. Stanchfield to the Merchants' Association of New York: In relation to preventing a monopoly by the Ramapo Water Co., of water rights throughout the State, and protecting the water-supply of the City of New York. Note: Letters in reply to a request from the Association for a statement of the attitude on this question of the two candidates for Governor; contains, also, copies of the letters making the request. N. Y., 1900. 15 pp., 8 x 5, pap.
- 1021 — Inquiry into the conditions relating to the water-supply of the City of New York. Merchants' Association of New York. N. Y., 1900. 29 + 627 pp., maps, tab., 9 x 6, cl.
- 1160 — Letters and documents relating to the investigation of the water supply of New York City; made under the auspices of the Merchants' Association, 1899-1900. no place, 1899-1900. various pagings, 12 x 10, cl. no title-page.
- 1082 — Reasons for revoking the excessive powers of the Ramapo Water Co.; submitted in behalf of the Merchants' Association of New York, favoring the repeal of Chapter 985 of the Laws of 1895. N. Y., 1901. 29 pp., 9 x 6, pap.
- 1148 — Report and resolutions on the subject of city water supply and distribution, showing the danger of the proposed dam at Quaker Bridge, and renewing the petition to appoint commissioners to decide upon plans and construction-works, Apr., 1882. Union League Club of New York. N. Y., 1882. 11 pp., 9 x 6, pap.
- 1085 — Report of the Commissioners of Accounts to the Mayor, of an examination of the books and records of the Bureau of Water Register. Department of Water Supply, Boroughs of Manhattan and the Bronx, with recommendations, and an audit of the receipts for the fiscal year ending Apr. 30th, 1900; also transmitting an analysis and consideration of the presentment of the Grand Jury, Nov. 30th, 1900, in relation to the Bureau of Water Register. N. Y., 1901. 59 pp., 10 x 7, pap.
- Report (quarterly) of the Department of Public Works; Sept., 1876; Mar., '78-Dec., '79; Dec., '81; Dec., '84; Dec., '86; Dec., '91; Dec. '94. (See On25-8.2.)
- 1026 — Report showing discrepancies in city revenues; made to the Merchants' Association of New York, by Frederick B. De Berard. Note: Relates to the Water Department. N. Y., 1900. 9 pp., il., 2 tab., 11 x 9, pap.
- 1022 — Report upon New York's water supply, with particular reference to the need of procuring additional sources and their probable cost with works constructed under municipal ownership; made to Bird S. Coler, Comptroller. J. R. Freeman. N. Y., 1900. 8 + 587 pp., il., pl., maps, tab., 10 x 7, cl.
- 111 **NEWARK, N. J.** By-laws, rules and regulations of the Board of Street and Water Commissioners, adopted May 13th, 1891. Newark, 1891. 63 pp., 9 x 6, pap.
- 104 **NEWBURGH, N. Y.** Annual report of the Water Commissioners to the Common Council; 29th-33d, 35th; for the year ending Mar. 1st, 1895-99, 1901. Newburgh, 1895-1901. 6 v., 9 x 6, pap.
- 466 — Same; 1st-6th; 1867-72. Newburgh, 1867-72. 6 v., 9 x 6, b. p.
- 190 — Same; 5th-10th; 1871-76. Newburgh, 1871-76. 6 v., 9 x 6, b. p.
- 109 **NEWPORT, KY.** Annual report of the Trustees of the Water-Works; 26th-28th; 1898-1900. Newport, 1899-1901. 3 v., 9 x 6, pap.
- NEWPORT, N. H.** Report of the Water Commissioners; 1896-98. (See On36-2.1.)
- NEWTON, MASS.** Annual report of the Water Department; 1900-01. (See On40-2.1.)
- NICARAGUA.** Memoria del Ministerio de Fomento; 1885-86. Note: Contains report on the proposed water-works to supply the District of Jinotepe. no date. (See A1-89.)

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- 110 **NORFOLK, VA.** Annual report of the Board of Water Commissioners for the fiscal year ending June 30th, 1889-94, '98, 1900-01. Norfolk, 1889-1901. 9 v. in 7, 9 x 6, pap.
- NORTH ADAMS, MASS.** Annual report of the Commissioner of Public Works; 1896-97. (See On50-3.1.)
- 113 **NORTHAMPTON, MASS.** Annual report of the Board of Water Commissioners; 6th-10th, 12th-15th, 17th-31st; 1876-80, '82-85, '87-1901. Bost., 1877-1901. 24 v., 9 x 6, pap.
- 183 —Same; 1st-5th; 1871-75. Northampton, 1872-76. 5 v., 9 x 6, b. p.
- 114 **NORWICH, CONN.** Report of the Superintendent of Water-Works to the Board of Water Commissioners; 5th, 18th-28th; for the fiscal year ending Mar. 31st, 1878, '91-1901. Norwich, 1878-1901. 12 v., pl., 9 x 6, pap.
- 183 —Same; 1st; 1870. Norwich, 1870. 1 v., 9 x 6, b. p.
- 3 —Report on increasing the water supply of the City of Norwich, Conn., Mar. 22d, 1901. Hill, Quick & Allen. Norwich, 1901. 44 pp., 7 pl., 6 tab., 9 x 6, pap.
- OHIO.** Annual report of the State Board of Health; 1886-1900. (See Eg-109.)
- Report of an investigation of the rivers of Ohio as sources of public water supplies; by the State Board of Health; 1896-1901. Note: Report for 1899 contains "First report upon the condition of the public water supplies of Ohio," which is a preliminary report upon the present condition of public water-works and to some extent their sources of supply. (See Db-52.)
- PAWTUCKET, R. I.** Annual report of the Water Commissioners and Superintendent of Water-Works; 1901. (See Op18-2.1.)
- 273 **PEEKSKILL, N. Y.** Report of the Water Commissioners; 1877-97. Peekskill, 1898. 1 v., 9 x 6, pap.
- 459 **PHILADELPHIA, PA.** Annual report of the Chief Engineer of the Water Department; 58th-60th, 62d, 65th; 1859-61, '63, '66. Phil., 1860-67. 5 v., 9 x 6, pap.
- 459a —Annual report of the Water Bureau; 85th, 96th, 98th-100th; 1887, '97, '99-1901. Phil., 1887-1902. 5 v., pl., map, tab., 9 x 6, cl.
- 1135 —Annual report of the Watering Committee to the Select and Common Councils; 1836. Note: Contains report for the year 1832 and an extract from the report for 1833. Phil., 1837. 1 v., pl., 9 x 6, pap.
- 455 —Same; 1849, '52. Phil. 1850-53. 2 v., 9 x 6, b. p.
- Report of the Bureau of Surveys on the improvement, extension and filtration of the water supply; by G. S. Webster. 1901. (See Op25-7.1, Annual report, 1900, p. 122.)
- Report on the experiments with turbine wheels, made 1859-60 at Fairmount Works, Philadelphia. H. P. M. Birkenbine. 1861. (See Dc-459, Annual report, 1860, p. 111.)
- 1180 —View of the practicability and means of supplying the City of Philadelphia with wholesome water, in a letter to John Miller, Esq., Dec. 29th, 1798. B. H. Latrobe. Phil., 1799. 20 pp., 8 x 5, pap.
- PITTSFIELD, MASS.** Report of the Water Commissioners; 1886. (See Op30-2.1.)
- 959 **PLYMOUTH, MASS.** Annual report of the Water Commissioners; 1881-1901. Plymouth, 1882-1901. 21 v., 9 x 6, pap.
- 129 **PORT HURON, MICH.** Annual report of the Board of Water Commissioners; 28th; for the fiscal year ending Mar. 31st, 1901. Port Huron, 1901. 1 v., il., 9 x 6, pap.
- PORTLAND, ORE.** Annual report of the Water Committee; 1891, '93-1901. (See Op46-2.1.)
- PORTSMOUTH, N. H.** Report of the Board of Water Commissioners; 1891, '95. (See Op47-2.1.)
- POUGHKEEPSIE, N. Y.** Annual report of the Board of Public Works; 1896-1900. (See Op50-3.1.)
- 132 —Annual report of the Water Commissioners to the Common Council; 10th, 16th-27th; 1878, '84-95. Poughkeepsie, 1879-96. 13 v., 9 x 6, pap.
- PROVIDENCE, R. I.** Annual report of the City Engineer; 1900-01. (See Op55-2.1.)
- 1075 —Communication of the Commissioner of Public Works relating to the pollution of the Pawtuxet River, presented Jan. 21st, 1892. (City doc. No. 9.) Providence, 1892. 29 pp., 9 x 6, pap.
- 1074 —Communication of the Commissioner of Public Works relative to the pollution of the Pawtuxet River, presented Apr. 3d, 1893. (City doc. No. 18.) Providence, 1893. 5 pp., 9 x 6, pap.
- Quarterly reports of the Department of Public Works; Mar.-June, Dec., 1883; June, '84; Dec., '84-Mar., '86; Sept., '87-Dec., '90; June-Dec., '91; June, '92-Dec., 1900. (See Op55-3.1.)

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- Report of S. B. Cushing on examinations and surveys to ascertain the feasibility and cost of introducing water into Providence from the Pawtuxet and Woonasquatucket Rivers. 1866. (See De-1071, p. 5.)
- 1068 —Report of the Board of Public Works relative to a reduction in water rates. (City doc. No. 24.) Providence, 1888. 11 pp., tab., 9 x 6, pap.
- 1079 —Report of the Board of Water Commissioners relating to the pumping engine at Pettaconset, presented to the Board of Aldermen, Aug. 16th, 1877. (City doc. No. 27.) Providence, 1877. 5 pp., 9 x 6, pap.
- 1077 —Report of the Board of Water Commissioners upon a proposed resolution to restore full Sockanosset pressure, presented Oct. 18th, 1877. (City doc. No. 28.) Providence, 1877. 6 pp., 9 x 6, pap.
- 1081 —Report of the Joint Committee on the City Engineer's Department recommending a system of filtration and appropriating \$281,000 therefor. Providence, 1896. 8 pp., 9 x 6, pap.
- 1078 —Report of the Joint Committee on Water upon the proposed change of water pressure in the City of Providence, with accompanying papers. (City doc. No. 21.) Providence, 1877. 38 pp., tab., 9 x 6, pap.
- 1072 —Report of the Joint Special Committee of the City Council appointed to examine the several sources of water supply for the City of Providence, Jan. 8th, 1866. (City doc. No. 20.) Providence, 1866. 10 pp., 9 x 6, pap.
- 1080 —Report of the Joint Special Committee of the City Council relative to filtration, with an accompanying resolution providing for building a system of natural gravity filters and appropriating \$210,000 therefor. Providence, 1894. 18 pp., tab., 9 x 6, pap.
- 1076 —Report of the Joint Special Committee of the City Council to examine and report relative to the pollution of the water supply and the best method of water filtration. Providence, 1893. 23 pp., 9 x 6, pap.
- 1084 —Report of the Joint Special Committee of the City Council upon the need and advisability of constructing a system of filters for purifying the city water supply. Providence, 1900. 93 pp., tab., 9 x 6, pap.
- 1082 —Report of the State Commission on the Pollution of Pawtuxet River made to the General Assembly at its January session, 1894. Providence, 1894. 43 pp., 9 x 6, pap.
- 1073 —Report on the condition of the Pawtuxet water, supplied to the City of Providence, R. I. J. H. Appleton. Providence, 1888. 12 pp., 2 tab., 9 x 6, pap.
- 1071 —Second report of the Joint Special Committee of the City Council to examine the sources of water supply for the City of Providence, presented Apr. 23d, 1866. (City doc. No. 28.) Providence, 1866. 10 pp., 9 x 6, pap.
- QUEBEC, QUE. Aqueduct, Quebec, Sept., 1885. City Engineer. no place, no date. 7 pp., 9 x 6, b. p. no title-page. Zb-85, p. 57.
- QUEENSLAND. Annual report of the Hydraulic Engineer of the Water Supply Department for the year ending June 30th, 1900-01. (See De-1.)
- QUINCY, ILL. Inaugural address of the Mayor; together with annual reports of the Officers; 1889, '96-97, 1900. (See Oq9-2.1.)
- 1095 READING, PA. Annual report of the Board of Water Commissioners to the Select and Common Councils; 36th-37th; for the fiscal year ending Apr. 1st, 1901-02. Reading, 1901-02. 2 v., pl., tab., 9 x 5, cl.
- 1145 —Report upon electrolysis of water mains in the City of Reading, Pa. A. A. Knudson. Reading, 1901. 27 pp., il., pl., map, 9 x 6, pap.
- 1097 RICHMOND, VA. Annual report of the Superintendent of the City Water-Works to the Mayor; 1875-1901. Richmond, 1875-1902. 27 v., pl., 9 x 6, pap.
- ROCHESTER, N. Y. Annual report of the Department of Public Works; 1900. (See Or15-3.1.)
- Annual report of the Executive Board, in charge of the Water-Works, Fire and Highway Departments; 1899. (See Or15-2.1.)
- 1090 —Electrolysis in the water pipe system: Report of an investigation by Edwin A. Fisher, City Engineer. Rochester, 1901. 82 pp., pl., 9 x 6, pap.
- 1152 —Specifications for furnishing and laying the pipes and conduits for supplying the city with water; also, specifications for constructing the reservoirs for the water-works. no place, 1873. various paging, 13 x 8, pap. no title-page.
- ROCKFORD, ILL. Annual reports of the City Officers; 1898-99. (See Or20-3.1.)
- 1051 ROCKPORT, MASS. Annual report of the Water Commissioners; 1st, 8th; for the fiscal year ending Mar., 1895, 1901. Gloucester, 1895-1902. 2 v., 9 x 6, pap.
- RUTLAND, VT. Report of the City Engineer; 1900. (See Or35-2.1.)
- 263 ST. CATHARINES, ONT. Annual report of the Water-Works Commission to the City Council; 1890, '95. St. Catharines, 1891-95. 2 v., il., 9 x 6, pap.
- 427 ST. JOHN, N. B. Superintendent and Engineer's report: Sewerage and Water Supply Commission; 44th-46th; 1899-1901. St. John, 1900-02. 3 v., map, 9 x 6, pap.

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- 354 **ST. LOUIS, MO.** Annual report of the Water Commissioner for the fiscal year ending Apr., 1890-91. '96, 1900-01. St. Louis, 1890-1901. 5 v., 10 x 7, 9 x 6, pap.
- 1117 — Report of the Commission of Hydraulic Engineers on the water supply of the City of St. Louis; by Benozette Williams, George Y. Wisner and Allen Hazen. St. Louis, 1902. 193 pp., 8 pl., tab., 10 x 7, pap.
- 285 **ST. PAUL, MINN.** Annual report of the Board of Water Commissioners; 19th-20th: 1900-01. Note: For annual reports, 1886, '88, see Os35-4.1. St. Paul, 1901-02. 2 v., 9 x 6, pap.
- 518 **SALEM, MASS.** Annual report of the Water Board to the City Council; 18th-38d; 1884-1901. Salem, 1885-1902. 18 v., 9 x 6, pap.
- SALT LAKE CITY, UTAH.** Annual message of the Mayor, with the annual reports of the officers; 1892. (See Os50-3.1.)
- SAN FRANCISCO, CAL.** Municipal reports for the year ending June 30th, 1860, '65, '70-71, '73-75, 1900-01. (See Os55-2.1.)
- 1098 — Specifications for the manufacture and laying of a double line of submarine pipe of twenty-two inch outside diameter across the Bay of San Francisco; by H. Schussler. Spring Valley Water-Works Co. no place, 1901. 15 pp., 13 x 8, pap.
- 148 **SANDUSKY, OHIO.** Annual report of the Trustees of the Water-Works; 26th; 1901. Sandusky, 1902. 1 v., 9 x 6, pap.
- 149 **SARATOGA SPRINGS, N. Y.** Annual report of the Water Commissioners; 6th-12th; 1879-85. Saratoga Springs, 1879-85. 7 v., 9 x 6, pap.
- SAVANNAH, GA.** Annual report of the Mayor; to which is added the Treasurer's report and reports of the different departments; 1882-93, '96. (See Os62-2.1.)
- 1108 **SCHENECTADY, N. Y.** Annual report of the Water Commissioners to the Common Council; 19th; 1901. Schenectady, 1901. 1 v., 9 x 6, pap.
- 151 **SEWICKLEY, PA.** Annual report of the Commissioners of the Water-Works to the Borough Council; 2d-3d; 1875-76. Pittsburg, 1876-77. 2 v., 9 x 6, pap.
- 152 **SOMERVILLE, MASS.** Annual report of the Water Department; 1st-2d, 6th, 18th-14th, 16th-19th, 21st, 23d-28th; 1874-75, '79, '86-87, '89-92, '94, '96-1901. Note: For Annual reports, 1883, '96, see Os75-2.1. Somerville, 1875-1902. 16 v., 9 x 6, pap.
- 956 **SOUTH AUSTRALIA.** Report from the Department of Public Works for the year ending June 30th, 1887-89, '91, '96. Adelaide, 1887-96. 5 v., pl., maps, 13 x 8, pap.
- 1105 **SOUTH BEND, IND.** Annual water-works report of the Department of Public Works to the Mayor and Common Council; 1901. South Bend, 1901. 1 v., 9 x 6, pap.
- 1042 — Preliminary test of the South Bend Water-Works, Dec. 25th, 1873: Report of Engineer Birkinbine and description of the works. South Bend, 1873. 8 pp., 9 x 6, pap.
- SOUTH NORWALK, CONN.** Report of the Water Commissioner; 1888-1900. (See Os78-2.1.)
- 156 **SPRINGFIELD, ILL.** Report of the Water Commissioners; for the fiscal year ending Feb. 28th, 1881, '84-85, 1901. Note: For report, 1899, see Os79-3.1. Springfield, 1881-1902. 4 v., 9 x 6, pap., cl.
- 406 **SPRINGFIELD, MASS.** Annual report of the Board of Water Commissioners to the City Council; 11th, 13th-16th, 18th-28th; 1884, '86-89, '91-1901. Springfield, 1885-1902. 16 v., 9 x 6, pap.
- 1086 — Report of the Board of Water Commissioners on the relation which exists between Broad Brook Canal and Jabish Brook, in Belchertown; from surveys made by Phineas Ball, Chief Engineer of the Springfield Water-Works, 1875. no place, 1875. 4 pp., 9 x 6, pap.
- 1113 — Special report on the improvement of the present water supply and an alternative new, independent supply, made by the Board of Water Commissioners to the City Council, Apr. 14, 1902; including accompanying reports made by Percy M. Blake, Consulting Engineer, and by the State Board of Health. no place, 1902. 87 pp., 9 x 6, pap.
- 1087 — Water rates, rules and regulations. no place, 1889. 16 pp., 6 x 3, pap.
- 1062 **SPRINGFIELD, MO.** Statement of the Springfield Water Co. no place, 1886. 15 pp., 6 x 5, pap.
- 417 **SPRINGFIELD, OHIO.** Annual report of the Trustees of the Water-Works to the City Council; 9d-14th, 16th-17th, 20th-21st; for the year ending Mar. 31st, 1888-94, '96-97, 1900-01. Springfield, 1888-1901. 15 v., 9 x 6, pap.
- 1058 — Water-works for Springfield: Preliminary report made to the Committee on Water-Works. J. D. Cook. no place, 1880. newspaper slip.
- 1150 **SULLIVAN'S ISLAND.** Specifications, etc., for boring an artesian well on Sullivan's Island, S. C. U. S.-Corps of Engineers. Charleston, 1896. 5 pp., 14 x 9, pap. no title-page.

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- 1116 **SYRACUSE, N. Y.** Reports of the Engineers to the Joint Committee of Aldermen and Citizens of the City of Syracuse, N. Y., on a supply of water from the Tully Lakes, Jan., 1871. J. J. R. Croes and A. W. Craven. N. Y., 1871. 31 pp., tab., 9 x 6, pap.
- 158 **TAUNTON, MASS.** Annual report of the Water Commissioners; 5th, 7th-9th, 11th-15th, 17th-26th; 1880, '82-84, '86-90, '92-1901. Taunton, 1885-1901. 19 v., 9 x 6, pap.
- TITUSVILLE, PA.** Annual message of the Mayor; 1880, '83, '85. (See Ot15-2.1.)
- 160 **TOLEDO, OHIO.** Annual report of the Water-Works Board, including Secretary, and Superintendent's reports to the Common Council; 8th, 10th-16th, 26th-29th for the fiscal year ending Mar. 1st, 1880, '82-83, '99-1902. Toledo, 1881-1902. 12 v., 9 x 6, pap.
- TORONTO, ONT.** Annual report of the City Engineer; 1878-81, '99-1900. (See Ot30-2.1.)
- 1024 — Report to the City Council on the proposed water supply by gravitation from the Oak Ridge Lakes and the Rivers Don and Rouge, with map, etc. W. J. McAlpine and Kivas Tully. Toronto, 1886. 25 pp., map, 9 x 6, pap.
- 1025 — Toronto Water-Works: New pumping engine: Reports of experts, tenders, specifications, etc. no place, 1884. 81 pp., tab., 9 x 6, pap.
- 163 **TRENTON, N. J.** Annual report of the Board of Water Commissioners; 1881-86, '88. Note: For annual reports, 1873, '75, '76, see Ot33-2.1. Trenton, 1882-89. 7 v., 9 x 6, pap.
- 1059 — Charter of the Trenton Water-Works; with the articles of association. Trenton, 1841. 19 pp., 9 x 5, pap.
- 1059a — Same; also the act incorporating the proprietors thereof, and supplement thereto, with the by-laws of the company. Trenton, 1852. 24 pp., 9 x 5, pap.
- 164 **TROY, N. Y.** Annual report of the Water Commissioners to the Common Council; 22d, 26th-27th, 29th-36th, 39th, 45th; 1876, '80-81, '83-90, '93, '99. Troy, 1877-1900. 13 v., pl., maps, tab., 9 x 6, pap.
- TRURO, N. S.** Annual reports of the several departments of the town government, for the civic year ending Mar. 31st, 1886-87. (See Ot40-3.1.)
- 1063 **UNADILLA, N. Y.** Unadilla Water-Works: Memoranda. S. S. North. Unadilla, 1886. 16 pp., 5 x 3, pap.
- 1147 **UNITED STATES.** Stand-pipe accidents and failures: A chronological record of accidents to, and failures of, water-works stand-pipes in the United States, with full discussion and assignment of theories; also a discussion of current practice in specifications for stand-pipes and of other related matters. W. D. Pence. N. Y., 1895. 7 + 195 pp., il., pl., 7 x 4, pap.
- Water, gas and electric-light plants under private and municipal ownership. Department of Labor. 1900. (See Zj-37, Annual report, 1899.)
- 1068 — Water-works statistics for the year 1900, in form adopted by the New England Water-Works Association. C. W. Sherman, comp. no place, 1901. pp. 367-389, 5 tab., 9 x 6, pap.
- 1057 **VANCOUVER, WASH.** Official reports on the water supply of Vancouver Barracks, W. T., including the cold spring water supplied by the Vancouver Water Co., with table of analyses. C. L. Heizmann. Vancouver, 1882. 14 pp., 8 x 5, pap.
- 236 **VICTORIA.** Annual general report by the Secretary of the Mines and Water Supply Department; 5th; 1891. Melbourne, 1891. 1 v., il., pl., maps, tab., 14 x 9, pap.
- 167 **WALTHAM, MASS.** Report of the Water Commissioners; 12th, 15th-29th; 1884, '87-1901. Note: Report for 1900 contains report of suit for damages against the City of Waltham for the diversion of water used for manufacturing purposes. Waltham, 1885-1902. 16 v., pl., 9 x 6, pap.
- 571 **WARE, MASS.** Annual report of the Board of Water Commissioners; 3d-16th; 1888-1901. Ware, 1889-1901. 14 v., 9 x 6, pap.
- WASHINGTON, D. C.** Annual report of the Commissioners of the District of Columbia for the year ending June 30th, 1896. (See Od40-2.1.)
- Annual report of the Engineer Department of the District of Columbia for the year ending June 30th, 1883, '86, '98-1902. (See Od40-3.1.)
- 1041 — Purification of the Washington water supply: An inquiry held by direction of the United States Senate Committee on the District of Columbia; ed. and comp. by Charles Moore. Wash., 1901. 16 + 241 pp., tab., 9 x 6, cl.
- 1023 — Report of an investigation of the feasibility and propriety of filtering the water supply of Washington, D. C., with detailed statement of the cost of the work required. U. S.-Office of Washington Aqueduct. (56th Cong., 1st Sess. Sen. doc. No. 259.) Wash., 1900. 121 pp., 14 pl., tab., 9 x 6, pap.
- Specifications, etc., for excavation, embankment, puddle, seeding, sodding, concrete masonry, American Portland cement, sluice gates and water valves, ~~—ri~~ meters, filter sand and gravel, cast-iron pipe and special castings, ~~—ri~~ controller valves, glazed vitrified pipe and specials, and centrifugal it for filtration beds at Washington, D. C. U. S.-Corps of Engi- (See Db-44.)

Dc—(Continued).

- 1038 —Specifications, etc., for furnishing and delivering sluice gates, water valves, 48-inch cast-iron water pipe and special castings at Washington, D. C. U. S. Corps of Engineers. Wash., 1900. 8 pp., 14 x 9, pap. no title-page.
- WATERBURY, CONN. Annual report of the City Engineer; 1896-99. (See Ow10-2.1.)
- 169 WILMINGTON, DEL. Annual report of the Chief Engineer of the Water-Works; 1901. Wilmington, 1901. 1 v., pl., 9 x 6, pap.
- 170 WINCHESTER, MASS. Annual report of the Water Commissioners; 18th-18th, 23d-29th; 1896-91, '95-1901. Marlborough, 1896-1902. 13 v., 9 x 6, pap.
- WINNIPEG, MAN. Annual report of the City Engineer; 1901. (See Ow36-2.1.)
- 172 WOBURN, MASS. Annual report of the Water Commissioners; 9th-16th, 18th-24th, 26th; 1890-97, '99-96, '97. Note: For Annual report, 1896, see Ow38-3.1; for Annual reports subsequent to 1897, see Ow38-2.1. Woburn, 1881-98. 16 v., 9 x 6, pap.
- 1094 —Report of the Committee on the Introduction of Water into the Town of Woburn, with report of the Engineer and Chemist, Feb., 1872. Woburn, 1872. 86 pp., 9 x 6, pap.
- WOLFEBORO, N. H. Annual report of the Superintendent of Water-Works; 1900. (See Ow39-2.1.)
- 525 WOONSOCKET, R. I. Annual report of the Water Department; 1895-97, '99-1901. Woonsocket, 1896-1902. 6 v., 9 x 5, pap.
- 173 WORCESTER, MASS. Annual reports of the Water Committee, the Water Commissioner, the Water Registrar, and the City Engineer; 1890-94, '96-89, 1900-01. Note: For Annual reports, 1895-96, see Ow40-2.1. Worcester, 1881-1902. 11 v., 9 x 6, pap.
- Kettle Brook and Blackstone Valley mill owners, Petitioners, vs. City of Worcester: Arguments. G. F. Hoar and others. Note: Suit relates to the amount of damages to be paid by the City of Worcester for taking the water of Kettle Brook and Blackstone River. 1899. (See Dd-49.)
- 365 YONKERS, N. Y. Annual report of the Board of Water Commissioners to the Common Council; 11th-29th; 1888-1901. N. Y., 1884-1901. 19 v., pl., 9 x 6, pap.
- 1118 YOUNGSTOWN, OHIO. Annual report of the Board of Trustees of the Water Works; 18th; for the fiscal year ending Mar. 31st, 1902. Youngstown, 1902. 1 v., 9 x 6, pap.
- 174 ZANESVILLE, OHIO. Annual report of the Trustees of the Water-Works, together with the reports of the Superintendent and Secretary, for the year ending Mar. 31st, 1901-02. Zanesville, 1901-02. 2 v., por., pl., 9 x 6, pap.

WATER SUPPLY—POWER.

Dd

- BIRKINBINE, H. P. M. Report on the experiments with turbine wheels, made 1859-60 at Fairmount Works, Philadelphia. 1861. (See Dc-459, Annual report, 1860, p. 111.)
- 39 BOSTON BELTING CO. vs. CITY OF BOSTON. Testimony and arguments. Note: Suit relates to diversion of water from Stony Brook. no place, 1898-1901. 57 v., 9 x 6, pap.
- CANADA—DEPARTMENT OF THE INTERIOR. Map of the Dominion of Canada. Note: Map illustrating water power of Canada to accompany presidential address, Royal Society of Canada, May, 1899. (See Qf-515.)
- CONSOLIDATED LAKE SUPERIOR CO. Annual report for the year ending June 30th, 1902. (See Ag-545.)
- 30 COOLEY, L. E. Report on the development of the water power of the Des Moines Rapids of the Mississippi River, near Keokuk, Ia., and Hamilton, Ill. Keokuk, 1901. 65 pp., pl., map, 9 x 6, pap.
- 38 FRIZELL, J. P. Water-power: An outline of the development and application of the energy of flowing water. N. Y., 1901. 7 + 563 pp., il., 26 tab., 9 x 6, cl.
- 31 GREAT FALLS POWER CO. Charter and organization of the G. F. P. Co., with a report of Jos. P. Frizell, upon the water power of the Great Falls of the Potomac and plans for its utilization. Wash., 1894. 48 pp., pl., 9 x 6, pap.
- 40 HOAR, G. F., and others. Kettle Brook and Blackstone Valley mill owners, Petitioners, vs. City of Worcester: Arguments. Note: Suit relates to the amount of damages to be paid by the City of Worcester for taking the water of Kettle Brook and Blackstone River. no place, 1899. 5 v., 9 x 7, pap.
- HOLYOKE WATER POWER CO. vs. CITY OF HOLYOKE. Testimony. Note: Case relates to the valuation of the water power and the gas and electric light and power plants. 1899-1902. (See Ia-28.)
- 51 HOLZ. Über Wasserkraftverhältnisse in Skandinavien und im Alpengebiet. Berlin, 1901. 48 pp., il., pl., 19 x 13, bds.
- LANE, A. C. Water powers in Michigan. 1899. (See Dc-81, No. 80, p. 18.)

Dd—(Continued).

- MARKS, G. C. Hydraulic power engineering: A practical manual on the concentration and transmission of power by hydraulic machinery. 1900. (See Gb-18.)
- 29 MAYER, ARTHUR. Zur Frage der Nutzbarmachung der Wasserkräfte für industrielle, insbesondere Traktionszwecke: Vortrag gehalten im Verein für die Förderung des Local- und Strassenbahnwesens in Wien am 2. April 1900. Wien, 1900. 20 pp., 10 x 7, pap. no title-page.
- MERRIMAN, MANSFIELD. Measurement of water power. 1900. (See Da-58, p. 288.)
- 38 NASHUA RIVER PAPER CO. Commonwealth of Massachusetts, Supreme Judicial Court; N. R. P. Co., Petitioner, vs. Commonwealth of Massachusetts: Testimony. Note: Suit relates to the amount of damage caused by the construction of the Metropolitan Water-Works for the City of Boston. Bost., 1901-02. 4 v., 9 x 6, cl.
- PRESSEY, H. A. Hydrography of the Southern Appalachian Mountain Region. (U. S. Geological Survey. Water Supply and Irrigation Papers.) 1902. (See De-81, Nos. 62-63.)
- RANKINE, W. J. M. Of water power and wind power. 1870. (See Go-101, p. 91.)
- REID, A. J., comp. Illustrated annual review of the *Appleton Post*, devoted to the City of Appleton, Wis., its water power and industries; also an historical sketch of Fox River Valley. Appleton, 1879. 74 pp., il., 9 x 6, b. p. Za-39, p. 71.
- SCHUYLER, J. D. Reservoirs for irrigation, water-power and domestic water-supply; with an account of various types of dams and the methods and plans of their construction; together with a discussion of the available water-supply for irrigation in various sections of arid America; the distribution, application and use of water; the rainfall and run-off, the evaporation from reservoirs; the effect of silt upon reservoirs, etc. 1901 (See Da-62.)
- SWAIN, G. F., J. A. HOLMES, and E. W. MYERS. Papers on the water power in North Carolina: A preliminary report. 1899. (See Yh-196, Bulletin No. 8.)
- TAYLOR, T. U. Austin dam. (U. S. Geological Survey. Water Supply and Irrigation Papers.) 1900. (See De-81, No. 40.)
- UHLAND, W. H., ed. Wasserbau und Wassermotoren. 1890. (See Ga-161, v. 7.)

WATER SUPPLY—IRRIGATION.

De

- 128 AFRICA. Agriculture and irrigation for South Africa: Rainfall and irrigation. no place, 1900. newspaper slips.
- ARIZONA. River irrigating waters of Arizona, their character and effects. R. H. Forbes. 1902. (See Yb-58, No. 44.)
- Winter irrigation of deciduous orchards. A. J. McClatchie. 1901. (See Yb-58, No. 37.)
- CALIFORNIA. Development and application of water near San Bernardino, Colton and Riverside, Cal. J. B. Lippincott. (U. S. Geological Survey. Water Supply and Irrigation Papers.) 1902. (See De-81, Nos. 59-60.)
- 135 — Engineers' reports to the Honey Lake Valley Land & Water Co. on the irrigation system in Honey Lake Valley, Lassen County, Cal. San Fran., 1901. 1 v., pl., map, 9 x 6, pap.
- Physical characteristics of Kern River, Cal., by F. H. Olmsted; and Reconnaissance of Yuba River, Cal., by Marsden Manson. (U. S. Geological Survey. Water Supply and Irrigation Papers.) 1901. (See De-81, No. 46.)
- Reconnaissance of Yuba River, Cal. Marsden Manson. 1901. (See De-81, No. 46, p. 39.)
- 143 — Report of irrigation investigations in California under the direction of Elwood Mead. U. S. Department of Agriculture. (Bulletin No. 100.) Wash., 1901. 411 pp., pl., maps, 12 x 10, cl.
- Report of the State Engineer to the Legislature of the State of California; 1881. (See Cb-115.)
- Storage of water on Kings River, Cal. J. B. Lippincott. (U. S. Geological Survey. Water Supply and Irrigation Papers.) 1902. (See De-81, No. 58.)
- Water storage on Cache Creek, Cal. A. E. Chandler. (U. S. Geological Survey. Water Supply and Irrigation Papers.) 1901. (See De-81, No. 45.)
- 140 CANADA. General report on irrigation and Canadian irrigation surveys; 1894-98. Department of the Interior. Ottawa, 1895-1900. 5 v. in 3, il., pl., tab., maps, 10 x 7, pap., 94 ro.

De—(Continued).

- 116 **COLORADO.** Biennial report of the State Engineer; 10th; 1899-1900. Denver, 1901. 1 v., pl., maps, 9 x 6, cl.
—Distribution of water; powers and duties of irrigation officials in Colorado. H. N. Haynes. 1901. (See Yb-30, No. 67.)
- 130 —Irrigation bulletin; No. 1. State Engineer. Contents: Measurement of water; by A. L. Fellows. Denver, 1900. 1 v., il., tab., 9 x 6, pap.
- 149 **EGYPT.** Nile reservoir dam at Assuân, and after. William Willcocks. Lond., 1901. 21 pp., pl., maps, 10 x 7, cl.
- 151 —Report upon the administration of the Public Works Department; with reports by the officers in charge of the several branches of the Administration; 1899. Cairo, 1900. 1 v., pl., tab., 11 x 7, pap.
- GENERAL.**
- BERTHOT, PIERRE.** Utilisation des eaux par l'agriculture. no date. (See Na-188, v. 2, p. 698.)
- HAYNES, H. N.** Distribution of water; powers and duties of irrigation officials in Colorado. 1901. (See Yb-30, No. 67.)
- HESS, A.** Mellorationen (Landwirthschaftliche Verbesserungen). 1900. (See V-120, v. 3, Pt. 2, 1st half, p. 1.)
- MURPHY, E. C.** The windmill; its efficiency and economic use. (U. S. Geological Survey. Water Supply and Irrigation Papers.) 1901. (See De-81, Nos. 41-42.)
- SALVADOR, P. L.** Des irrigations. (Bibliothèque du Conducteur de Travaux Publics.) 1898. (See Yb-67, v. 2.)
- SCHUYLER, J. D.** Reservoirs for irrigation, water-power and domestic water-supply; with an account of various types of dams and the methods and plans of their construction; together with a discussion of the available water-supply for irrigation in various sections of arid America; the distribution, application and use of water; the rainfall and run-off, the evaporation from reservoirs; the effect of silt upon reservoirs, etc. 1901. (See Da-62.)
- 137 **HAWAIIAN ISLANDS.** Culture of sugar cane; Report on water supply for irrigation on the Honouliuli and Kahuku ranches, Island of Oahu, H. I. J. D. Schuyler and G. F. Allardt. Oakland, Cal., 1899. 32 pp., map, 10 x 7, pap.
- HUNGARY.** Le service de l'hydraulique agricole en Hongrie. Ladislav Józsa. 1900. (See Ca-92, Brochure 5.)
- 131 **IDAHO.** Biennial report of the State Engineer; 1895-96, '99-1900. Boise, 1896-1900. 2 v., il., map, 9 x 6, pap.
- 85 **INDIA.** Administration report. Irrigation Branch; 1888-89, '91, '96, 1900-01. Madras—Public Works Department. Madras, 1888-1902. 6 v., 13 x 8, bds.
- 139 —History of the Periyár project. A. T. Mackenzie. Madras, 1899. 181 pp., il., por., 28 pl., 7 tab., 10 x 7, cl.
- KANSAS.** The High Plains and their utilization. W. D. Johnson. (U. S. Geological Survey.) 1901. (See Yh-40, Annual report, 1899-1900, Pt. 4, p. 601.)
- 149 **MONTANA.** Bulletin of the Agricultural Experiment Station; Nos. 6, 11; June, 1896, June, '96. Contents: No. 6, Measurement of water; by A. M. Ryon. No. 11, Devices for obtaining a constant flow in laterals with variable heads in the main canals or reservoirs; by A. M. Ryon. Bozeman, 1895-96. 2 v., il., 9 x 6, pap.
- 129 —Duty of water in the Gallatin Valley; by Samuel Fortier. U. S.—Office of Experiment Stations. no place, no date. pp. 175-196, il., pl., tab., 9 x 6, pap.
- 127 **NEW JERSEY.** Irrigation in New Jersey; by Edward B. Voorhees. U. S.—Office of Experiment Stations. (Bulletin No. 87.) Wash., 1900. 40 pp., il., 9 x 6, pap.
- NEW MEXICO.** The High Plains and their utilization. W. D. Johnson. (U. S. Geological Survey.) 1901. (See Yh-40, Annual Report, 1899-1900, Pt. 4, p. 601.)
- 134 **NEW SOUTH WALES.** Irrigation in its relation to the pastoral industry of New South Wales. H. G. M'Kinney. Sydney, 1889. 22 pp., maps, 9 x 6, pap.
- 1 **QUEENSLAND.** Annual report of the Hydraulic Engineer of the Water Supply Department; 16th-17th; for the year ending June 30th, 1900-01. Brisbane, 1900-01. 2 v., maps, 14 x 9, pap.
- SOUTH AUSTRALIA.** Report from the Department of Public Works on irrigation works; 1887-89, '91, '96. (See De-956.)
- 136 **SOUTH DAKOTA.** Report of the State Engineer of Irrigation; 1st; 1890. Huron, 1890. 1 v., 8 x 6, pap.
- TEXAS.** The High Plains and their utilization. W. D. Johnson. (U. S. Geological Survey.) 1901. (See Yh-40, Annual report, 1899-1900, Pt. 4, p. 601.)
- UNITED STATES.** Conveyance of water in irrigation canals, flumes and pipes. Samuel Fortier. (U. S. Geological Survey. Water Supply and Irrigation Papers.) 1901. (See De-81, No. 43.)
- 145 —Irrigation in the United States. F. H. Newell. N. Y., 1902. 19 + 427 pp., il., pl., 9 x 6, pap.

De—(Continued).

- 147 —Proceedings of the annual session of the National Irrigation Congress; 1st, 5th, 9th; 1891, '96, 1900. various places, 1891-1900. 3 v., por., 9 x 6, pap.
- 152 —Report of irrigation investigations for 1900. Office of Experiment Stations. Wash., 1902. 4 v., il., pl., 9 x 6, pap.
- Reservoirs for irrigation, water-power and domestic water-supply; with an account of various types of dams and the methods and plans of their construction; together with a discussion of the available water-supply for irrigation in various sections of arid America; the distribution, application and use of water; the rainfall and run-off, the evaporation from reservoirs; the effect of silt upon reservoirs, etc. J. D. Schuyler. 1901. (See Da-82.)
- 144 —Use of water in irrigation: Report of investigations made in 1899 under the supervision of Elwood Mead, including reports by special agents and observers. Department of Agriculture. Note: Records the results of observations on the duty of water in Texas, New Mexico, Arizona, California, Nebraska, Colorado, Wyoming, Montana, Utah and Idaho. Wash., 1900. 253 pp., il., pl., maps, 9 x 6, pap.
- 81 —Water Supply and Irrigation Papers; Nos. 1-64. Geological Survey. Wash., 1896-1902. 64 v., il., 10 x 6, pap.
- 105 **UTAH.** Biennial report of the State Engineer to the Governor; 2d; 1899-1900. Salt Lake City, 1901. 1 v., il., 9 x 6, pap.
- 148 —Bulletin of the Experiment Station of the Agricultural College; Nos. 26, 38, 50; Dec., 1898, Feb. '95, June, '97. Logan, 1898-97. 3 v., il., pl., map, 9 x 6, pap.
- 26, Sub-irrigation vs. surface irrigation; by Samuel Fortier.
- 38, Preliminary report on seepage water and the underflow of rivers; by Samuel Fortier.
- 50, Water supply of the Cache Valley; by Samuel Fortier.
- 138 —Report of the Irrigation Commission to the National Irrigation Congress; 1894; comp. and prepared by Charles L. Stevenson. Salt Lake City, 1894. 1 v., 9 x 6, pap.
- VICTORIA.** Annual general report by the Secretary of the Mines and Water Supply Department; 1891. (See Dc-336.)
- 45 —River gaugings; 1900. Mines and Water Supply Department. no place, 1900. 1 v., maps, tab., 13 x 8, pap.
- 141 —Specifications, etc., for the construction of a reservoir on the Coliban River, about half a mile below the junction of the Little Coliban, and about four and a half miles from the Kyneton Railway Station. Mines and Water Supply Department. Melbourne, no date. 53 pp., 13 x 9, pap.
- 118 **WYOMING.** Biennial report of the State Engineer to the Governor; 3d; 1895-96. Cheyenne, 1897. 1 v., pl., 9 x 6, cl.
- 150 —Bulletin of the Agricultural Experiment Station of Wyoming University; Nos. 8, 18, 20, 45. no place, 1892-1900. 4 v., 9 x 6, pap.
- 8, Irrigation and duty of water; by B. C. Buffum.
- 18, The reclamation of arid lands, and The Harvey water motor; by A. A. Johnson.
- 20, Artesian wells of Southern Wyoming; by J. D. Conley.
- 45, Preliminary report on the artesian basins of Wyoming; by W. C. Knight.

SANITATION.

SANITATION—GENERAL.

Ea

- BAKER, M. N.** Municipal engineering and sanitation. 1902. (See Oa1-12.)
- 21 **CHAPIN, C. V.** Municipal sanitation in the United States. Providence, 1901. 8 + 970 pp., il., pl., 10 x 7, cl.
- FARKASS, KALMAN DE.** Le service des Ingénieurs sanitaires en Hongrie. 1900. (See Ca-92, Brochure 9.)
- 22 **HARRINGTON, CHARLES.** Manual of practical hygiene for students, physicians, and medical officers. Phil., 1901. 729 pp., il., 12 pl., 10 x 6, cl.
- 19 **MOORE, E. C. S.** Sanitary engineering: A practical treatise on the collection, removal and final disposal of sewage and the design and construction of works of drainage and sewerage, with a special chapter on the disposal of house refuse and sewage sludge and numerous hydraulic tables, formulæ and memoranda, including an extensive series of tables of velocity and discharge of pipes and sewers specially computed by Ganguillet and Kutter's formula. N. Y., 1896. 621 pp., il., pl., 9 x 7, cl.
- NEW YORK STATE—TENEMENT HOUSE COMMITTEE.** Report. 1895. (See Ja-189.)
- 18 **PRICE, G. M.** Handbook of sanitation: A manual of theoretical and practical sanitation, for students and physicians, for health, sanitary, tenement-house, plumbing, factory, food, and other inspectors, as well as for candidates for all municipal positions. N. Y., 1901. 12 + 817 pp., 8 x 5, cl.
- VERNON-HARCOURT, L. F.** Sanitary engineering. 1902. (See V-124, p. 509.)
- 20 **WOOD, FRANCIS.** Sanitary engineering: A practical manual of town drainage and sewage and refuse disposal, for sanitary authorities, engineers, inspectors, architects, contractors and students. Lond., 1902. 11 + 304 pp., il., pl., 8 x 5, cl.

SANITATION—DRAINAGE.

Eb

- BOSTON, MASS.** Report upon the discharge of sewage into Boston Harbor. Mass.-State Board of Health. 1900. (See Ee-2.)
- 26 **CALIFORNIA.** Report of the Commissioner of Public Works to the Governor; 1899-1900. Note: Relates principally to the drainage of the Valley of California. Sacramento, 1901. 1 v., pl., 9 x 6, pap.
- Report of the State Engineer to the Legislature of the State of California; 1881. (See Cb-115.)
- CHICAGO, ILL.** Proceedings of the Board of Trustees; 1900. Chicago Sanitary District. (See Ec-289.)
- Report of the Special Commission appointed by Hon. John R. Tanner, Governor, under Section 27 of the "Act to create sanitary districts and to remove obstructions in the Desplaines and Illinois Rivers and the dams at Henry and Copperas Creek," approved May 29th, 1889. Note: A commission appointed for the purpose of making an examination of the work authorized by said act. 1900. (See Ec-131.)
- GENERAL.**
- BERTHOT, PIERRE.** Assainissement, drainage. no date. (See Na-188, v. 2, p. 816.)
- HESS, A.** Bewässerung der Ländereien. 1900. (See V-120, v. 3, Pt. 2, 1st half, p. 46.)
- LATHAM, BALDWIN.** Sanitary engineering: A guide to the construction of works of sewerage and house drainage; with tables for facilitating the calculations of the engineer. 1877. (See Ec-10a.)
- MOORE, E. C. S.** Sanitary engineering: A practical treatise on the collection, removal and final disposal of sewage and the design and construction of works of drainage and sewerage, with a special chapter on the disposal of house refuse and sewage sludge and numerous hydraulic tables, formulæ and memoranda, including an extensive series of tables of velocity and discharge of pipes and sewers specially computed by Ganguillet and Kutter's formula. 1898. (See Ea-19.)

Eb—(Continued).**GENERAL—(Continued).**

- SALVADOR, P. L.** Assainissements et dessèchements. (Bibliothèque du Conducteur de Travaux Publics.) 1900. (See Yb-67, v. 3.)
- 55 **WERY, PAUL.** Assainissement des villes et égouts de Paris. (Bibliothèque du Conducteur de Travaux Publics.) Paris, 1898. 8 + 663 pp., 8 x 5, ro.
- 42 **HACKENSACK MARSHES.** Drainage of the Hackensack and Newark tide-marshes; by C. C. Vermeule. New Jersey-Geological Survey. Trenton, 1897. pp. 287-317, 9 x 6, $\frac{1}{2}$ cl.
- HAVANA, CUBA.** Report of the Chief Engineer, Division of Cuba; July, 1899-Dec. 1900. (See Oh23-3.1.)
- HUNGARY.** Les travaux de régularisation et d'endiguement en Hongrie. Edmond de Kolossváry. 1900. (See Ca-92, Brochure 7.)
- ILLINOIS.** Sanitary District Act; together with an "Act for the improvement of the Illinois and Desplaines Rivers," also Act conferring police powers, and joint resolutions of the Legislature. 1900. (See Ec-131, p. 71.)
- LEICESTER, ENGLAND.** Report of the Borough Engineer and Surveyor to the Highway and Sewerage and Sewage Works and Farms Committees, on the sewerage and disposal of the sewage of the Belgrave District, the bacteriological experiments in the purification of Leicester sewage and the supplementary works required at the Beaumont Leys Sewage Farm. 1900. (See Ec-17.)
- LYNN, MASS.** Annual report of the City Engineer; 1875. (See Ol60-4.1.)
- MARSHALLTOWN, IA.** Report upon the sewerage and drainage and street grades of Marshalltown, Ia. C. B. Davis. 1885. (See Om17-2.1, Annual report, 1885, p. 34.)
- 43 **MINNESOTA.** Report of the State Drainage Commission to the Governor and State Legislature on the condition of the State ditches located in the Red River Valley for the biennial period ending Feb. 1st, 1899. Minneapolis, 1899. 1 v., il., por., map, 9 x 6, pap.
- 56 **NETHERLANDS.** Das Wasserwesen der niederländischen Provinz Zeeland. Friedrich Müller. Berlin, 1898. 2 v., il., 11 x 7, (atlas 12 x 10), pap.
—Dikes of Holland. G. H. Matthes. 1901. (See Ce-21.)
- NEW JERSEY.** Annual report of the State Geologist; 1896, '98-1901. (See Yh-22.)
- 42 —Drainage of the Hackensack and Newark tide-marshes; by C. C. Vermeule. Geological Survey. Trenton, 1897. pp. 287-317, 9 x 6, $\frac{1}{2}$ cl.
- 40a **NEW ORLEANS, LA.** Additional statement of Chief Engineer, on change of cement; forming Item 7 of Exhibit "G" omitted by error from Report of Board of Inquiry on the character and conduct of the drainage works of New Orleans. B. M. Harrod. New Orleans, 1902. 16 pp., 9 x 6, pap.
- 40 —Report of Board of Inquiry on the conduct and character of the drainage works, New Orleans, La.; Rudolph Hering, Geo. H. Benzenberg, Howard A. Carson. Board of Drainage Commissioners. New Orleans, 1902. 185 pp., tab., 9 x 6, pap.
- 44 —Specifications: Contract A-D. Contents: Contract A, Central Electric Power Station; St. Louis Pumping Station No. 2; Metairie Pumping Station No. 6; Orleans Pumping Station No. 7. Contract B, St. Louis Steam Power and Pumping Station No. 2; Metairie Steam Power and Pumping Station No. 6; Orleans Steam Power and Pumping Station No. 7. Contract C, Lined and covered canals. Contract D, Open and unlined canals. New Orleans, 1897. 4 v., 9 x 6, pap.
- NEW YORK CITY.** Annual report of the Board of Health; 1874-80, '90, '92, '96. (See Eg-4.)
- 42 **NEWARK MARSHES.** Drainage of the Hackensack and Newark tide-marshes; by C. C. Vermeule. New Jersey-Geological Survey. Trenton, 1897. pp. 287-317, 9 x 6, $\frac{1}{2}$ cl.
- OHIO.** Annual report of the State Board of Health; 1886-1900. (See Eg-109.)
- OMAHA, NEB.** Plan and reports on sewerage of the City of Omaha. G. E. Waring, Jr. 1881. (See Ec-12.)
- PROVIDENCE, R. I.** Annual report of the City Engineer; 1900-01. (See Op55-2.1.)
- SOUTH AUSTRALIA.** Report from the Department of Public Works on drainage works; 1887-89, '91, '96. (See Dc-956.)

SANITATION—SEWERAGE.**Ec**

- ALLEGHENY, PA.** Annual report of the City Engineer; 1875-76, '81-83, '87, '98. (See Oa20-2.1.)
—Annual reports of the Councils; 1875-76, '81-83, '87. (See Oa20-2.1.)
- ATTLEBOROUGH, MASS.** Supplementary report of the Committee on Sewerage; together with the report of Freeman C. Coffin, upon the merits of the Shone hydro-pneumatic system for the Town of Attleborough. 1896. (See Dc-1069, Annual report, 1896, p. 41.)

Ec—(Continued).

- AUGUSTA, GA.** Annual report of the Board of Health; 1880. (See Eg-108.)
 —Mayor's message, city officers' reports and accompanying documents, with report of Board of Health; 1884-88, '90-96, '98-1901. (See Oa40-2.1.)
- BALTIMORE, MD.** Annual report of the City Commissioner; 1895-97. (See Ob5-3.1.)
 —Annual report of the Sewerage Commission to the Mayor and City Council; 1895-97. (See Ob5-3.1.)
- BANGOR, ME.** Annual report of the Superintendent of Sewers; 1884-85, '87-88. (See Ob10-2.1.)
- BINGHAMTON, N. Y.** Report of the City Engineer; 1891, '93, '96-1901. (See Ob20-2.1.)
- BLOOMINGTON, ILL.** Annual reports of the City Officers for the fiscal year ending April 30th; 1888, '85. (See Ob80-2.1.)
- BOSTON, MASS.** Annual report of the Engineering Department; 1894-1900. (See Ob95-3.1.)
- 90 —Annual report of the Board of Metropolitan Sewerage Commissioners of Massachusetts; 12th; 1900. Bost., 1901. 1 v., il., pl., 9 x 6, cl.
 —Annual report of the Metropolitan Water and Sewerage Board of Massachusetts; 1901. (See Dc-1112.)
 —Report upon the discharge of sewage into Boston Harbor. Mass.-State Board of Health. 1900. (See Ee-2.)
- BRISTOL, ENGLAND.** Improvement of Bristol: A report setting forth a plan proposed by the Town Improvement Co. for carrying out the chief recommendations of Her Majesty's Commissioners of Inquiry into the means of improving the health of the population of large towns and densely populous districts. 1846. (See Dc-1125.)
- BROOKLYN, N. Y.** Annual report of the Department of City Works; 1892-93, '96. (See Ob45-2.1.)
 —Annual report of the Nassau Water Department to the Common Council; 1861, '64-65. (See Dc-445.)
- BUFFALO, N. Y.** Annual report of the Bureau of Engineering; 1892. (See Ob50-4.1.)
 —Annual report of the Department of Public Works; 1899-1900. (See Ob50-6.1.)
- BURLINGTON, VT.** Annual report of the City Government; 1883. (See Ob57-2.1.)
- CHICAGO, ILL.** Annual report of the Department of Public Works; 1900-01. (See Oc35-2.1.)
- 289 —Proceedings of the Board of Trustees; 1900. Chicago Sanitary District. Chic., 1900. 1 v., 9 x 6, pap.
- 181 —Report of the Special Commission appointed by Hon. John R. Tanner, Governor, under Section 27 of the "Act to create sanitary districts and to remove obstructions in the Desplaines and Illinois Rivers and the dams at Henry and Copperas Creek," approved May 29th, 1899. Note: A commission appointed for the purpose of making an examination of the work authorized by said act. Chic., 1900. 181 pp., il., pl., 9 x 6, 1/4 ro.
- CHICOPEE, MASS.** Annual report of the City Engineer; 1896-97, '99. (See Oc40-2.1.)
- CINCINNATI, OHIO.** Annual report of the Civil Engineer; 1860, '97. (See Oc45-2.1.)
- CLEVELAND, OHIO.** Annual report of the City Civil Engineer; 1874-75, '82, '87, '89-90, '98-1900. (See Oc50-2.1, Oc50-3.1 and Oc50-4.1.)
 —Annual report of the Department of Public Works; 1898-99. (See Oc50-4.1.)
- CUBA.** Report of the Chief Engineer, Division of Cuba; July, 1899-Dec., 1900. (See Ob23-3.1.)
- DOVER, N. H.** Annual report of the City Civil Engineer; 1891. (See Od50-2.1.)
- DULUTH, MINN.** Annual report of the City Engineer; 1900. (See Od60-4.1.)
- EASTON, PA.** Annual report of the City Engineer; 1893, '95-96. (See Oe15-2.1 and Oe15-3.1.)
- ERIE, PA.** Annual report of the City Engineer for the year ending Apr., 1881. (See Oe45-2.1.)
- EVERETT, MASS.** Annual report of the City Engineer; 1897. (See Oe55-3.1.)
- FALL RIVER, MASS.** Report of the City Engineer; 1882-34, '88-89, '92, '96-97. (See Of10-2.1.)
- FITCHBURG, MASS.** Annual report of the City Engineer; 1874-76, '78, '81, '84-85, '89, '96-97, 1900-01. (See Of25-2.1 and Of25-3.1.)
 —Special report of the City Engineer relative to a main trunk sewer. 1896. (See Of25-3.1, Annual report, 1896, p. 241.)

Ec—(Continued).**GENERAL**

- DEBAUVE, A.** Égouts et assainissements municipal. 1897. (See Da-142, v. 2, p. 473.)
- GOODHUE, W. F.** Sewerage system for municipalities. 1900. (See Oa1-11, p. 1.)
- 301 **HITE-SMITH, V. D.** Engineering treatise on sewer construction. Norfolk, 1902. 30 pp., 7 x 5, pap.
- IMBEAUX, ED.** L'alimentation en eau et l'assainissement des villes; compte rendu des derniers progrès et de l'état actuel de la science sur ces questions 1902. (See Da-149.)
- 10a **LATHAM, BALDWIN.** Sanitary engineering: A guide to the construction of works of sewerage and house drainage; with tables for facilitating the calculations of the engineer. Chic., 1877. 72 pp., 19 pl., 14 x 10, ¾ ro.
- LEGER, ALFRED.** Les travaux publics, les mines et la métallurgie aux temps des Romains; la tradition romaine jusqu'à nos jours. 1875. (See Ca-84.)
- MOORE, E. C. S.** Sanitary engineering: A practical treatise on the collection, removal and final disposal of sewage and the design and construction of works of drainage and sewerage, with a special chapter on the disposal of house refuse and sewage sludge and numerous hydraulic tables, formulæ and memoranda, including an extensive series of tables of velocity and discharge of pipes and sewers specially computed by Ganguillet and Kutter's formula. 1898. (See Ea-19.)
- OLIVE, J. A.** Du réseau des égouts. no date. (See Da-137, p. 609.)
- 21a **STALEY, CADY, and G. S. PIERSON.** The separate system of sewerage; its theory and construction; with chapter on sewage disposal. ed. 2, rev. and enl. N. Y., 1891. 281 pp., il., 20 pl., maps, 9 x 6, cl.
- 21b —Same. ed. 3, rev. and enl. N. Y., 1899. 324 pp., 30 pl., 36 tab., 8 x 6, cl.
- WERY, PAUL.** Assainissement des villes et égouts de Paris. (Bibliothèque du Conducteur de Travaux Publics.) 1898. (See Eb-55.)
- WOOD, FRANCIS.** Sanitary engineering: A practical manual of town drainage and sewage and refuse disposal, for sanitary authorities, engineers, inspectors, architects, contractors and students. 1902. (See Ea-20.)
- GLOVERSVILLE, N. Y.** Annual reports to the Common Council; 1901. (See Og25-2.1.)
- HARRISBURG, PA.** Department reports; 1893. (See Oh15-2.1.)
- HARTFORD, CONN.** Annual report of the Board of Street Commissioners; 1883-84, '90. (See Oh20-2.1.)
- HAVANA, CUBA.** Annual report of the Military Governor; July, 1899-May, 1900. (See Oh23-2.1.)
- Report of the Chief Engineer, Division of Cuba; July, 1899-Dec., 1900. (See Oh23-3.1.)
- 297 —Specifications, etc., for sewerage system and street paving. no place, 1901. unpag., 14 x 8, pap.
- HOLYOKE, MASS.** Municipal register, containing the Mayor's address, city government roster, annual reports, etc.; 1875-76, '86-90, '94, '96-97. Board of Aldermen. (See Oh50-3.1.)
- Report to the Sewer Committee on a general plan of sewerage for the City of Holyoke. Shedd & Sawyer. 1876. (See Oh50-3.1, Annual report, 1876, p. 177.)
- 134 **HONOLULU, H. I.** Report on sewerage of Honolulu; by Frank S. Dodge. Hawaii-Board of Health. Honolulu, 1895. 31 pp., 8 x 6, pap.
- HUDSON, N. Y.** Report of the Commission of Public Works; 1899. (See Oh55-2.1.)
- ILLINOIS.** Sanitary District Act; together with an "Act for the improvement of the Illinois and Desplaines Rivers," also Act conferring police powers, and Joint resolutions of the Legislature. 1900. (See Ec-131, p. 71.)
- INDIANAPOLIS, IND.** Annual report of the Department of Public Works; 1895. (See Oi35-3.1.)
- JACKSONVILLE, FLA.** Annual report of the Board of Trustees for the Water-Works and Improvement Bonds; 1901. (See Oj3-2.1.)
- JERSEY CITY, N. J.** Annual report of Chief Engineer of the Board of Public Works; 1880. (See Oj15-2.1.)
- KANSAS CITY, MO.** Annual report of the Board of Public Works to the Common Council for the fiscal year ending Apr. 16th, 1900. (See Ok15-5.1.)
- KEENE, N. H.** Annual report of the Water and Sewer Commissioners; 1882-84, '89, '92-93, '96-98. (See Dc-1133 and Ok20-2.1.)
- 295 **KINGSTON, N. Y.** Report on the sewerage of the City of Kingston. New York-State Board of Health. no place, no date. 12 pp., 9 x 6, pap.
- LACONIA, N. H.** Annual report of the Superintendent of Sewers; 1897. (See Ol4-2.1.)

Ec—(Continued).

- 17 **LEICESTER, ENGLAND.** Report of the Borough Engineer and Surveyor to the Highway and Sewerage and Sewage Works and Farms Committees, on the sewerage and disposal of the sewage of the Belgrave District, the bacteriological experiments in the purification of Leicester sewage and the supplementary works required at the Beaumont Leys Sewage Farm. Leicester, 1900-187 pp., il., 88 pl., tab., 10 x 6, bds.
- LOUISVILLE, KY.** Annual report relating to sewerage; 1866-90. (See O150-3.1.)
- LYNCHBURG, VA.** Reports of the Standing Committees of the City Council; July, 1877-July, '78, July, '79-Jan., '80. (See O155-2.1.)
- LYNN, MASS.** Annual report of the Board of Public Works; 1901. (See O160-3.1.)
- Annual report of the City Engineer; 1875. (See O160-4.1.)
- MALDEN, MASS.** Inaugural address of the Mayor, with annual reports of the officers and committees; 1892, '96-97. (See Om5-3.1.)
- 294 **MALONE, N. Y.** Report on plan of sewerage for the Village of Malone. New York-State Board of Health. no place, no date. 14 pp., pl., map, 9 x 6, pap.
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- 90 **MASSACHUSETTS.** Annual report of the Board of Metropolitan Sewerage Commissioners; 12th; 1900. Bost., 1901. 1 v., il., pl., 9 x 6, cl.
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- MONTREAL, QUE.** Report of the City Surveyor on the various works executed by the Road Department; 1881. (See Om55-3.1.)
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- NEW BRITAIN, CONN.** Annual report of the Mayor and the several departments of the city to the Common Council for the year ending April 1st, 1885. (See On16-2.1.)
- 268 **NEW JERSEY.** Report of the State Sewerage Commission; 1900-01. Trenton, 1901. 2 v., 9 x 6, cl.
- NEW YORK CITY.** Annual report of the Croton Aqueduct Department made to the Common Council; 1853, '56-58. (See Dc-627.)
- Annual report of the Board of Health; 1874-80, '90, '92, '96. (See Eg-4.)
- Annual report of the Department of Public Works; 1882, '85, '96. (See On25-8.1.)
- Annual report of the Department of Sewers; 1st-2d; 1898-99. N. Y., 1899-1900. 2 v., 9 x 6, pap.
- Report (quarterly) of the Department of Public Works; Sept., 1876; Mar., '78-Dec., '79; Dec., '81; Dec., '84; Dec., '86; Dec., '91; Dec., '94. (See On25-8.2.)
- NEW YORK STATE.** Annual report of the State Board of Health; 1897-1901. (See Eg-3.)
- NEWPORT, N. H.** Report of the Sewer Commissioners; 1898. (See On36-3.1.)
- NEWPORT, R. I.** Annual report of the Street Commissioner; 1857, '69-73, '75-76, '78, '83, '86. (See On37-2.1.)
- NEWTON, MASS.** Annual report of the City Engineer; 1900-01. (See On40-2.1.)
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- OHIO.** Annual report of the State Board of Health; 1898-1900. (See Eg-109.)
- 12 **OMAHA, NEB.** Plan and reports on sewerage of the City of Omaha. G. E. Waring, Jr. Omaha, 1881. 23 pp., 9 x 6, pap.
- OTTAWA, ONT.** Annual report of the City Engineer; 1900. (See Oo80-4.1.)
- PARIS, FRANCE.** Assainissement des villes et égouts de Paris. Paul Wéry. (Bibliothèque du Conducteur de Travaux Publics.) 1898. (See Eb-55.)
- PATERSON, N. J.** Annual reports of the City Officers for the year ending Mar. 20th, 1875-84. (See Op15-2.1.)
- PAWTUCKET, R. I.** Annual report of the Board of Public Works; 1901. (See Op18-2.1.)
- 296 **PEEKSKILL, N. Y.** Report on the system of sewerage for the village of Peekskill. New York-State Board of Health. no place, no date. 8 pp., pl., 9 x 6, pap.
- PEORIA, ILL.** Annual report of the Department of Public Works; 1895-97. (See Op20-4.1.)
- PHILADELPHIA, PA.** Report of the Chief Commissioner of the Department of Highways; 1884. (See Op25-5.1.)
- PITTSBURG, PA.** Annual report of the Department of Public Works; 1899. (See Op28-2.1.)
- PITTSFIELD, MASS.** Report of the Commissioners of Common Sewers, Sidewalks and Main Drains; 1893. (See Op30-2.1.)
- PORTLAND, ME.** Annual report of the Auditor; 1858, '70. (See Op45-2.1.)
- PORTLAND, ORE.** Annual report of the City Engineer; 1898-1901. (See Op46-2.1.)
- POUGHKEEPSIE, N. Y.** Annual report of the Board of Public Works; 1896-1900. (See Op50-3.1.)
- Annual report of the Department of Water-Works and Sewers; 1878, '84-95. (See Dc-182.)
- PROVIDENCE, R. I.** Annual report of the City Engineer; 1900-01. (See Op55-2.1.)
- QUINCY, ILL.** Inaugural address of the Mayor; together with the annual reports of the officers; 1899, '96-97, 1900. (See Oq9-2.1.)
- ROCHESTER, N. Y.** Annual report of the Department of Public Works; 1900. (See Or15-3.1.)
- RUTLAND, VT.** Report of the City Engineer; 1900. (See Or85-2.1.)
- ST. JOHN, N. B.** Superintendent and Engineer's report: Sewerage and Water Supply Commission; 1899-1900. (See Dc-427.)
- ST. JOSEPH, MO.** Annual report of the City Engineer; 1896, '99. (See Os25-3.1.)
- ST. PAUL, MINN.** Annual reports of the city officers and city boards; 1886, '88, '98. (See Os35-4.1.)
- SALT LAKE CITY, UTAH.** Annual message of the Mayor; with the annual reports of the officers; 1892. (See Os50-3.1.)
- SAN FRANCISCO, CAL.** Municipal reports for the year ending June 30th, 1860, '65, '70-71, '73-75, 1900-01. Board of Supervisors. (See Os55-2.1.)
- SAVANNAH, GA.** Annual report of the Mayor; to which is added the Treasurer's report and reports of the different departments; 1892-93, '95. (See Os62-2.1.)
- SOUTH AUSTRALIA.** Report from the Department of Public Works on sewerage. 1887-89, '91, '96. (See Dc-956.)
- SPRINGFIELD, ILL.** Report of the City Engineer; 1898-99. (See Os79-3.1.)
- SPRINGFIELD, MASS.** Annual report of the City Engineer; 1898-99. (See Os80-3.1.)
- Annual report of the Superintendent of Streets and Sewers to the City Council; 1893, '90, '95-96, '98-99. (See Os80-3.1.)
- TAUNTON, MASS.** Report of the Commissioners on Sewerage for the City of Taunton; with report and proposed plan by Phineas Ball. 1889. (See Ot10-2.1, Annual report, 1889, p. 189.)
- TORONTO, ONT.** Annual report of the City Engineer; 1878-81, '99-1900. (See Ot30-2.1.)
- UTICA, N. Y.** Annual report of the City Surveyor; 1898-99. (See Ou8-2.1.)
- WASHINGTON, D. C.** Annual report of the Commissioners of the District of Columbia for the year ending June 30th, 1896. (See Od40-2.1.)
- Annual reports of the operations of the Engineer Department of the District of Columbia; 1893, '86, '98-1902. (See Od40-3.1.)
- WATERBURY, CONN.** Annual report of the City Engineer; 1898-99. (See Ow10-2.1.)

Ec—(Continued).

- 17 **LEICESTER, ENGLAND.** Report of the Borough Engineer and Surveyor to the Highway and Sewerage and Sewage Works and Farms Committees, on the sewerage and disposal of the sewage of the Belgrave District, the bacteriological experiments in the purification of Leicester sewage and the supplementary works required at the Beaumont Leys Sewage Farm. Leicester, 1900-187 pp., il., 32 pl., tab., 10 x 6, bds.
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- OTTAWA, ONT.** Annual report of the City Engineer; 1900. (See Oo30-4.1.)
- PARIS, FRANCE.** Assainissement des villes et égouts de Paris. Paul Wéry. (Bibliothèque du Conducteur de Travaux Publics.) 1898. (See Eb-55.)
- PATERSON, N. J.** Annual reports of the City Officers for the year ending Mar. 20th, 1875-84. (See Op15-2.1.)
- PAWTUCKET, R. I.** Annual report of the Board of Public Works; 1901. (See Op18-2.1.)
- 296 **PEEKSKILL, N. Y.** Report on the system of sewerage for the village of Peekskill. New York-State Board of Health. no place, no date. 8 pp., pl., 9 x 6, pap.
- PEORIA, ILL.** Annual report of the Department of Public Works; 1895-97. (See Op20-4.1.)
- PHILADELPHIA, PA.** Report of the Chief Commissioner of the Department of Highways; 1884. (See Op25-5.1.)
- PITTSBURG, PA.** Annual report of the Department of Public Works; 1899. (See Op28-2.1.)
- PITTSFIELD, MASS.** Report of the Commissioners of Common Sewers, Sidewalks and Main Drains; 1888. (See Op30-2.1.)
- PORTLAND, ME.** Annual report of the Auditor; 1858, '70. (See Op45-2.1.)
- PORTLAND, ORE.** Annual report of the City Engineer; 1893-1901. (See Op46-2.1.)
- POUGHKEEPSIE, N. Y.** Annual report of the Board of Public Works; 1896-1900. (See Op50-3.1.)
- Annual report of the Department of Water-Works and Sewers; 1878, '84-95. (See De-132.)
- PROVIDENCE, R. I.** Annual report of the City Engineer; 1900-01. (See Op55-2.1.)
- QUINCY, ILL.** Inaugural address of the Mayor; together with the annual reports of the officers; 1889, '96-97, 1900. (See Oq9-2.1.)
- ROCHESTER, N. Y.** Annual report of the Department of Public Works; 1900. (See Or15-3.1.)
- RUTLAND, VT.** Report of the City Engineer; 1900. (See Or35-2.1.)
- ST. JOHN, N. B.** Superintendent and Engineer's report: Sewerage and Water Supply Commission; 1899-1900. (See De-427.)
- ST. JOSEPH, MO.** Annual report of the City Engineer; 1896, '99. (See Os35-3.1.)
- ST. PAUL, MINN.** Annual reports of the city officers and city boards; 1886, '88, '98. (See Os35-4.1.)
- SALT LAKE CITY, UTAH.** Annual message of the Mayor; with the annual reports of the officers; 1892. (See Os50-3.1.)
- SAN FRANCISCO, CAL.** Municipal reports for the year ending June 30th, 1860, '65, '70-71, '73-75, 1900-01. Board of Supervisors. (See Os55-2.1.)
- SAVANNAH, GA.** Annual report of the Mayor; to which is added the Treasurer's report and reports of the different departments; 1882-93, '95. (See Os62-2.1.)
- SOUTH AUSTRALIA.** Report from the Department of Public Works on sewerage. 1887-89, '91, '96. (See De-956.)
- SPRINGFIELD, ILL.** Report of the City Engineer; 1898-99. (See Os79-3.1.)
- SPRINGFIELD, MASS.** Annual report of the City Engineer; 1898-99. (See Os80-3.1.)
- Annual report of the Superintendent of Streets and Sewers to the City Council; 1832, '90, '95-96, '98-99. (See Os80-3.1.)
- TAUNTON, MASS.** Report of the Commissioners on Sewerage for the City of Taunton; with report and proposed plan by Phineas Ball. 1889. (See Ot10-2.1, Annual report, 1888, p. 189.)
- TORONTO, ONT.** Annual report of the City Engineer; 1878-81, '99-1900. (See Ot30-2.1.)
- UTICA, N. Y.** Annual report of the City Surveyor; 1898-99. (See Ou8-2.1.)
- WASHINGTON, D. C.** Annual report of the Commissioners of the District of Columbia for the year ending June 30th, 1896. (See Od40-2.1.)
- Annual reports of the operations of the Engineer Department of the District of Columbia; 1883, '86, '98-1902. (See Od40-3.1.)
- WATERBURY, CONN.** Annual report of the City Engineer; 1893-99. (See Ow10-2.1.)

Ec—(Continued).

WOBBURN, MASS. Report of the Commissioner of Sewers; 1895-1900. (See Ow38-2.1 and Ow38-3.1.)

WORCESTER, MASS. Inaugural address of the Mayor; with annual reports of the several departments; 1888-89, '95-96. (See Ow40-2.1.)

SANITATION—HOUSE DRAINAGE.**Ed**

BOSTON, MASS. Text of plumbing laws and regulations in force in New York, Brooklyn and Boston, May, 1886. (See Ed-29, p. 225.)

BROOKLYN, N. Y. Text of plumbing laws and regulations in force in New York, Brooklyn and Boston, May, 1886. (See Ed-29, p. 225.)

GENERAL.

AUCAMUS, EUGENE. Menuiserie, serrurerie, plomberie, peinture et vitrerie. (Bibliothèque du Conducteur de Travaux Publics.) 1898. (See Ja-135.)

CHAPIN, C. V. Municipal control of plumbing in the United States. 1901. (See Ea-21, p. 220.)

81 **GERHARD, W. P.** Sanitary engineering of buildings. N. Y., 1899. 1 v., il., pl., 10 x 7, cl.

LATHAM, BALDWIN. Sanitary engineering: A guide to the construction of works of sewerage and house drainage; with tables for facilitating the calculations of the engineer. 1877. (See Ec-10a.)

MOORE, E. C. S. Sanitary engineering: A practical treatise on the collection, removal and final disposal of sewage and the design and construction of works of drainage and sewerage, with a special chapter on the disposal of house refuse and sewage sludge and numerous hydraulic tables, formulæ and memoranda, including an extensive series of tables of velocity and discharge of pipes and sewers specially computed by Ganguillet and Kutter's formula. 1898. (See Ea-19.)

OLIVE, J. A. Assainissement dans les habitations. no date. (See Da-137, p. 597.)

PRICE, G. M. Plumbing. 1901. (See Ea-18, p. 66.)

29 **SANITARY ENGINEER.** Plumbing problems; or, Questions, answers and descriptions relating to house-drainage and plumbing. N. Y., 1885. 244 pp., il., 9 x 6, cl.

STALEY, CADY, and G. S. PIERSON. House drainage and plumbing. 1899. (See Ec-21b, p. 240.)

WERY, PAUL. Assainissement de l'habitation par le "toute à l'égout." (Bibliothèque du Conducteur de Travaux Publics.) 1898. (See Eb-40, p. 255.)

WOOD, FRANCIS. Sanitary engineering: A practical manual of town drainage and sewage and refuse disposal, for sanitary authorities, engineers, inspectors, architects, contractors and students. 1902. (See Ea-20.)

NEW YORK CITY. Annual report of the Board of Health; 1874-89, '90, '92, '96. (See Eg-4.)

—Text of plumbing laws and regulations in force in New York, Brooklyn and Boston, May, 1886. (See Ed-29, p. 225.)

UNITED STATES. Municipal control of plumbing in the United States. C. V. Chapin. 1901. (See Ea-21, p. 220.)

SANITATION—SEWAGE DISPOSAL.**Ee**

98 **ALBANY, N. Y.** Report on the Albany Basin. New York-State Board of Health. Albany, 1884. 24 pp., map, 9 x 6, pap.

2 **BOSTON, MASS.** Report upon the discharge of sewage into Boston Harbor. Mass.-State Board of Health. Bost., 1900. 100 pp., maps, 9 x 6, cl.

BRISTOL, ENGLAND. Improvement of Bristol: A report setting forth a plan proposed by the Town Improvement Company for carrying out the chief recommendations of Her Majesty's Commissioners of Inquiry into the means of improving the health of the population of large towns and densely populous districts. 1846. (See Dc-1125.)

CHICAGO, ILL. Annual report of the Department of Public Works; 1900-01. (See Oc35-2.1.)

—Proceedings of the Board of Trustees; 1900. Chicago Sanitary District. (See Ec-289.)

108 —Report of the sanitary investigations of the Illinois River and its tributaries, with special reference to the effect of the sewage of Chicago on the Des Plaines and Illinois Rivers prior to and after the opening of the Chicago Drainage Canal. Illinois-State Board of Health. Springfield, 1901. 84 + 219 pp., pl., map., 9 x 6, cl.

Ee—(Continued).

- 55 **CONNECTICUT.** Report of the Sewage Commission to the General Assembly; 2d-8d; 1900-01. Hartford, 1901-02. 2 v., il., 9 x 6, pap.
- EAST ORANGE, N. J.** East Orange Sewage Disposal Works as compared with other methods. C. P. Bassett. 1889. (See Eg-134, Annual report, 1889, p. 73.)
- GENERAL.**
- 79 **DUNBAR, and K. THUMM.** Beitrag zum derzeitigen Stande der Abwasserreinigungsfrage mit besonderer Berücksichtigung der biologischen Reinigungsverfahren. München, 1902. 7 + 141 pp., tab., 10 x 7, pap.
- 102 **FOWLER, G. J.** Sewage works analyses. N. Y., 1902. 6 + 185 pp., pl., 8 x 5, cl.
- IMBEAUX, ED.** L'alimentation en eau et l'assainissement des villes; compte rendu des derniers progrès et de l'état actuel de la science sur ces questions. 1902. (See Da-143.)
- KINNICUTT, L. P., and H. P. EDDY.** Action of the septic tank on acid iron sewage. 1902. (See Ee-53, Report, 1901, p. 5.)
- MOORE, E. C. S.** Sanitary engineering: A practical treatise on the collection, removal and final disposal of sewage and the design and construction of works of drainage and sewerage, with a special chapter on the disposal of house refuse and sewage sludge and numerous hydraulic tables, formulæ and memoranda, including an extensive series of tables of velocity and discharge of pipes and sewers specially computed by (Ganguillet and Kutter's formula. 1898. (See Ea-19.)
- 101 **RIDEAL, SAMUEL.** Sewage and the bacterial purification of sewage. N. Y., 1901. 278 pp., il., 9 x 6, cl.
- 101a —Same. ed. 2. Lond., 1901. 2 + 308 pp., il., 4 pl., tab., 9 x 6, cl.
- STALEY, CADY, and G. S. PIERSON.** The separate system of sewerage; its theory and construction; with chapter on sewage disposal. 1899. (See Ec-21b.)
- WOOD, FRANCIS.** Sanitary engineering: A practical manual of town drainage and sewage and refuse disposal, for sanitary authorities, engineers, inspectors, architects, contractors and students. 1902. (See Ea-20.)
- HAMILTON, ONT.** Annual report of the Chief Engineer of Sewage Disposal Works; 1901. (See Dc-1107.)
- HONOLULU, H. I.** Report on sewerage of Honolulu; by Frank S. Dodge. Hawaii-Board of Health. 1895. (See Ec-134.)
- 92 **JOHNSTOWN, N. Y.** Report on the disposal of sewage of the City of Johnstown, N. Y. O. H. Landreth. Albany, 1900. 27 pp., map, tab., 9 x 6, pap.
- LEICESTER, ENGLAND.** Report of the Borough Engineer and Surveyor to the Highway and Sewerage and Sewage Works and Farms Committees, on the sewerage and disposal of the sewage of the Belgrave District, the bacteriological experiments in the purification of Leicester sewage and the supplementary works required at the Beaumont Leys Sewage Farm. 1900. (See Ec-17.)
- MASSACHUSETTS.** Annual report of the State Board of Health; 1899-1900. (See Eg-7.)
- NEW YORK STATE.** Annual report of the State Board of Health; 1897-1901. (See Eg-3.)
- OHIO.** Annual report of the State Board of Health; 1896-1900. (See Eg-109.)
- Report upon stream pollution in Ohio. Allen Hazen. 1898. (See Db-52, 1st report, p. 21.)
- RHODE ISLAND.** Communication relating to the pollution of the Pawtuxet River, presented Jan. 21st, 1892. Providence-Commissioner of Public Works. (See Dc-1075.)
- Communication relative to the pollution of the Pawtuxet River, presented April 3d, 1893. Providence-Commissioner of Public Works. 1893. (See Dc-1074.)
- Report of the State Commission on the Pollution of Pawtuxet River made to the General Assembly at its January session. 1894. (See Dc-1062.)
- TORONTO, ONT.** Annual report of the City Engineer; 1878-81, '99-1900. (See Ot30-2.1.)
- 100 —Report of the City Engineer on disposal of the sewage of the City of Toronto. Toronto, 1901. 34 pp., il., pl., 10 x 7, pap.

SANITATION—GARBAGE DISPOSAL.**Ef**

- BALTIMORE, MD.—DEPARTMENT OF STREET CLEANING.** Annual report to the Mayor and City Council; 1895-97. (See Ob5-3.1.)
- BROOKLYN, N. Y.** Annual report of the Department of City Works; 1892-98, '96. (See Ob45-2.1.)

Ef—(Continued).

- 17 —Sanitation at Barren Island: Correspondence and report of the State's engineer. New York-State Board of Health. no place. 1898. 8 pp., 9 x 6, pap.
- GENERAL.**
- CHAPIN, C. V. Refuse disposal in the United States. 1901. (See Ea-21, p. 665.)
- 26 GOODRICH, W. F. Economic disposal of towns' refuse. Lond., 1901. 16 + 340 pp., il., 9 x 6, cl.
- IMBEAUX, ED. Eloignement et traitement des immondices solides. 1902. (See Da-143, v. 2, p. 719.)
- 27 WARING, G. E., Jr. Street-cleaning and the disposal of a city's wastes: Methods and results and the effect upon public health, public morals and municipal prosperity. N. Y., 1899. 220 pp., il., por., pl., 8 x 5, cl.
- WOOD, FRANCIS. Sanitary engineering: A practical manual of town drainage and sewage and refuse disposal, for sanitary authorities, engineers, inspectors, architects, contractors and students. 1902. (See Ea-20.)
- GREAT BRITAIN. Refuse disposal in England. W. F. Goodrich. 1901. (See Ef-26, p. 90.)
- LOUISVILLE, KY. Annual report relating to garbage disposal; 1896-99. (See O150-2.1.)
- LOWELL, MASS. Cremation of garbage; experiment now in progress at Lowell. Board of Health. 1892. (See Eg-142. Annual report, 1892, p. 27.)
- 13 NEW YORK CITY. Report of the Department of Street Cleaning; 1898. N. Y., 1899. 1 v., 9 x 6, pap.
- 17 —Sanitation at Barren Island: Correspondence and report of the State's engineer. New York-State Board of Health. no place. 1898. 8 pp., 9 x 6, pap.
- 27 —Street-cleaning and the disposal of a city's wastes: Methods and results and the effect upon public health, public morals and municipal prosperity. G. E. Waring, Jr. N. Y., 1899. 220 pp., il., por., pl., 8 x 5, cl.
- UNITED STATES. Refuse disposal in America. W. F. Goodrich. 1901. (See Ef-26, p. 201.)
- Refuse disposal in the United States. C. V. Chapin. 1901. (See Ea-21, p. 665.)

SANITATION—HEALTH AND DISEASE.**Eg**

- ALBANY, N. Y. Report on the Albany Basin. New York-State Board of Health. 1884. (See Ee-98.)
- ALLEGHENY, PA. Report of the Bureau of Health; 1875-76, '81-83, '87, '98. (See Oa20-2.1.)
- 119 ATLANTA, GA. Annual report of the Board of Health; 16th, 21st; 1894, '99. Note: For annual report, 1891, see Oa32-2.1. Atlanta, 1894-99. 2 v., tab., 9 x 6, pap.
- AUBURN, ME. Annual report of the Board of Health; 1893, '95. (See Oa38-2.1.)
- 106 AUGUSTA, GA. Annual report of the Board of Health; 3d; 1880. Note: For 7th annual report (1884) see Oa40-2.1. Augusta, 1881. 1 v., 9 x 6, pap.
- 112 BALTIMORE, MD. Annual report of the Health Department to the Mayor and City Council; 1873, '82. Note: For annual reports, 1895-97, see Ob5-3. 1. Balt., 1874-83. 2 v., tab., 9 x 6, pap.
- BANGOR, ME. Annual report of the Board of Health; 1884-85, '87-88. (See Ob10-2.1.)
- 132 BINGHAMTON, N. Y. Vital statistics of the City of Binghamton, N. Y.: Annual statement of the Board of Health; 1884, '86-97. Binghamton, 1884-97. 13 v., various sizes, pap.
- 12 BOSTON, MASS. Annual report of the Health Department; 4th-8th, 20th, 24th, 29th; 1875-79, '91, '95, 1900. Bost., 1875-1900. 8 v. in 5, pl., tab., 9 x 6, ¼ ro., cl.
- BRADFORD, PA. Annual report of the Board of Health for the fiscal year ending Apr. 1st, 1895-98, 1900-02. (See Ob38-2.1.)
- BRIDGEPORT, CONN. Annual report of the Board of Health; 1881. (See Ob40-2.1.)
- 20 BROOKLYN, N. Y. Annual report of the Department of Health; 1884. Brooklyn, 1885. 1 v., 10 x 6, pap.
- 113 —Report of the Committee on Public Health on the petition of John T. Hildreth and others. Note: Relates to alteration in city ordinance allowing rebuilding or occupying of cow stables in Seventh Ward. Brooklyn, 1887. 35 pp., 9 x 6, pap.
- BURLINGTON, VT. Annual report of the Health Department; 1883. (See Ob57-2.1.)

Eg—(Continued).

- On the sanitary condition, past and present, of the water supply of Burlington, Vt. W. T. Sedgwick. 1896. (See Dc-26, Annual report, 1895, p. 19.)
- 127 **CALIFORNIA.** Biennial report of the State Board of Health; 1st-5th, 14th; for the fiscal years from June 30th, 1870-73, '94-96. Sacramento, 1871-96. 6 v., pl., tab., 9 x 6, cl.
- CAMBRIDGE, MASS.** Report of the Board of Health; 1846, '86-88, '91, '94, '96, '98-99. (See Oc5-3.1.)
- 114 **CHARLESTON, S. C.** Annual report of the Department of Health; 1899-1900. Charleston, 1900-01. 2 v., 9 x 6, pap.
- 140 **CHICAGO, ILL.** Biennial report of the Department of Health; 1870-73, '94-98. Note: Prior to 1895 reports were issued annually. Chic., 1874-98. 4 v., il., tab., 9 x 6, pap., bds., cl.
- CHICOPEE, MASS.** Annual report of the Board of Health; 1896-97, '99. (See Oc40-2.1.)
- CINCINNATI, OHIO.** Report of the Department of Health; 1897. (See Oc45-2.1.)
- CLEVELAND, OHIO.** Report of the Public Health Division; 1875, '82, '87, '89, '98-1900. (See Oc50-3.1.)
- CONCORD, N. H.** Annual report of the Health Department; 1884-85. (See Oc35-3.1.)
- 94 **CONNECTICUT.** Annual report of the State Board of Health; 7th, 29d-24th; 1884, 1900-01. Note: Contains the registration report of the Bureau of Vital Statistics. New Haven, 1885-1902. 3 v., pl., maps, tab., 9 x 6, cl.
- DAVENPORT, IOWA.** Annual report of the Board of Health; 1900. (See Od15-2.1.)
- 133 **DENVER, COLO.** Report of the Bureau of Health; 1895. Denver, 1896. 1 v., tab., 9 x 6, bds.
- DOVER, N. H.** Annual report of the Board of Health; 1891, '97, 1900-01. (See Od50-2.1.)
- EASTON, PA.** Report of the Board of Health; 1893, '96. (See Oe15-3.1.)
- EVERETT, MASS.** Annual report of the Board of Health; 1897. (See Oe55-3.1.)
- FALL RIVER, MASS.** Report of the Board of Health; 1882-84, '88-89, '92, '96-97. (See Of10-2.1.)
- FITCHBURG, MASS.** Annual report of the Board of Health; 1896-97. (See Of25-3.1.)
- 111 **FLORIDA.** Annual report of the State Board of Health for the year ending Mar. 31st, 1894. Tallahassee, 1895. 1 v., 10 x 6, pap.
- FRANKLIN, N. H.** Vital statistics of the City of Franklin; 1891-94, '99. City Government. (See Of50-2.1.)
- GENERAL.**
- CHAPIN, C. V.** Municipal sanitation in the United States. 1901. (See Ea-21.)
- Registration of vital statistics in the United States. 1901. (See Ea-21, p. 52.)
- D'UNGER, R.** Dipsomania. Note: Description of a cure for alcoholism. Chic., no date. 26 pp., 9 x 6, b. p. no title-page. Zj-193, p. 341.
- HARRINGTON, CHARLES.** Manual of practical hygiene for students, physicians and medical officers. 1901. (See Ea-22.)
- 91 **LATHAM, BALDWIN.** Climatic conditions necessary for the propagation and spread of the plague. Edin., 1900. 56 pp., il., pl., 10 x 6, cl.
- 110 **NOIR, JULIEN.** Hygiène et secours et premiers soins à donner aux malades et aux blessés. (Bibliothèque du Conducteur de Travaux Publics.) Paris, 1896. 330 pp., il., 8 x 5, ro.
- PRICE, G. M.** Handbook of sanitation: A manual of theoretical and practical sanitation, for students and physicians, for health, sanitary, tenement-house, plumbing, factory, food, and other inspectors, as well as for candidates for all municipal positions. 1901. (See Ea-18.)
- 123 **SEDGWICK, W. T.** Principles of sanitary science and the public health, with special reference to the causation and prevention of infectious diseases. N. Y., 1902. 19 + 368 pp., pl., 9 x 6, cl.
- 120 **SOPER, G. A.** Hygiene as a factor in education. N. Y., 1902. pp. 391-397, 9 x 6, pap.
- 73 —Sanitary condition of street-cars in New York. N. Y., 1902. 14 pp., 8 x 5, pap.
- 82 —Sanitary measures to be adopted after floods. no place, 1902. 6 pp., 10 x 6, pap.
- TURNEAURE, F. E., and H. L. RUSSELL.** Communicable diseases and water-supplies. 1901. (See Dc-1054, p. 173.)
- GLOUCESTER, MASS.** Annual report of the Board of Health; 1898. (See Og23-2.1.)

Eg—(Continued).

- GRAND RAPIDS, MICH.** Annual report of the Board of Health; 1900. (See Og50-4.1.)
- HARRISBURG, PA.** Annual report of the Sanitary Department; 1898. (See Oh15-2.1.)
- HAVANA, CUBA.** Annual report of the Military Governor; July, 1899-May, 1900. (See Oh23-2.1.)
- 115 **HAWAIIAN ISLANDS.** Special report of the Board of Health upon the cholera epidemic in Honolulu, Hawaiian Islands, in Aug. and Sept., 1896. Honolulu, 1896. 101 pp., tab., 8 x 6, pap.
- 116 —Supplement and appendix to the report on leprosy in Hawaii, made to the Legislative Assembly of 1896. Board of Health. Honolulu, 1896. 2 v., 8 x 6, pap.
- HOLYOKE, MASS.** Report of the Board of Health; 1898-90, '94, '96-97. (See Oh50-8.1.)
- 115 **HONOLULU, H. I.** Special report upon the cholera epidemic in Honolulu, Hawaiian Islands, in Aug. and Sept., 1896. Hawaii-Board of Health. Honolulu, 1896. 101 pp., tab., 8 x 6, pap.
- 125 **ILLINOIS.** Annual report of the State Board of Health; 7th, 11th, 18th; 1884, '88, '95. Springfield, 1885-96. 3 v., 9 x 6, cl.
- 126 **INDIANA.** Annual report of the State Board of Health; 15th; 1896. Indianapolis, 1897. 1 v., 9 x 6, cl.
- INDIANAPOLIS, IND.** Annual report of the Department of Public Health and Charities; 1893, '95. (See Oi35-3.1.)
- 96 **IOWA.** Biennial report of the State Board of Health; 2d-3d; for the fiscal period ending June 30th, 1893, '95. Des Moines, 1893-95. 2 v., 9 x 6, pap.
- 118 **JAMESTOWN, N. Y.** Annual report of the Health Department for the fiscal year ending Mar. 31st, 1900. Jamestown, 1900. 1 v., 9 x 6, pap.
- 128 **KANSAS.** Annual report of the State Board of Health; 1st; 1885. Topeka, 1886. 1 v., 9 x 6, cl.
- KEENE, N. H.** Report of the Board of Health; 1881-94, '89, '92, '95-96. (See Ok20-2.1.)
- LACONIA, N. H.** Report of the Board of Health; 1897. (See Ol4-2.1.)
- 146 **LOUISIANA.** Biennial report of the State Board of Health; 1896-97. Baton Rouge, 1898. 1 v., pl., 9 x 6, pap.
- 142 **LOWELL, MASS.** Annual report of the Board of Health; 15th-17th, 21st; 1892-94, '98. Lowell, 1893-99. 4 v., il., 9 x 6, pap.
- LYNN, MASS.** Annual report of the Board of Health; 1890. (See Ol60-4.1.)
- 129 **MAINE.** Annual report of the State Board of Health; 1st; 1885. Augusta, 1886. 1 v., il., 9 x 6, pap.
- MALDEN, MASS.** Annual report of the Board of Health; 1892, '96-97. (See Om5-8.1.)
- MANCHESTER, N. H.** Report of the Board of Health; 1892, '94, '98-1900. (See Om10-3.1.)
- MARLBOROUGH, MASS.** Report of the Board of Health; 1896. (See Om 15-3.1.)
- 130 **MARYLAND.** Biennial report of the State Board of Health; 11th; 1894-95. Annapolis, 1896. 1 v., pl., 9 x 6, pap.
- 7 **MASSACHUSETTS.** Annual report of the State Board of Health; 31st-32d; 1899-1900. Bost., 1900-01. 2 v., 9 x 5, cl.
- MEDFORD, MASS.** Report of the Board of Health; 1892-94. (See Om20-2.1.)
- 131 **MICHIGAN.** Annual report of the Secretary of the State Board of Health; 15th-19th, 22d, 28th; for the fiscal year ending June 30th, 1887-91, '94, 1900. Lansing, 1888-1901. 7 v., pl., tab., 9 x 6, cl.
- MIDDLETOWN, CONN.** Report of the Health Officer; 1896-98. (See Om35-2.1.)
- MINNESOTA.** Vital statistics of Minnesota; 1879, '82, '84. Commissioner of Statistics. (See Qc-36.)
- NEW BEDFORD, MASS.** Annual report of the Board of Health; 1879-84, '86-87, '89, '95-96, '99-1900. (See On15-3.1.)
- 135 **NEW HAMPSHIRE.** Report of the State Board of Health; 14th; July, 1895-Nov., '96. Concord, 1897. 1 v., il., 9 x 6, pap.
- NEW HAVEN, CONN.** Report of the Board of Health; 1899. (See On20-4.1.)
- 134 **NEW JERSEY.** Annual report of the Board of Health; 1st-3d, 18th, 18th-19th; 1877-79, '89, '94-95. Camden, 1878-96. 6 v., pl., 9 x 6, pap.
- 4 **NEW YORK CITY.** Annual report of the Board of Health; 1874-80, '90, '92, '96. N. Y., 1874-97. 7 v., pl., maps, 9 x 6, cl., pap.
- Report of the Citizens' Committee upon the nuisances of New York City: The air we breathe. N. Y. 1878. 17 pp., 9 x 6, b. p. Za-39, p. 365.
- 124 —Report of the Select Committee appointed to investigate the Health Department of the City of New York. New York-Senate. (Senate doc. No. 49.) no place, 1859. 211 pp., pl., tab., 9 x 6, cl. no title-page.

Eg—(Continued).

- 18a —Sanitary code of the Board of Health, May, 1870. N. Y., 1870. 59 pp., 9 x 6, pap.
- 73 —Sanitary condition of street-cars in New York. G. A. Soper. N. Y., 1902. 14 pp., 8 x 5, pap.
- 3 **NEW YORK STATE.** Annual report of the State Board of Health; 18th-21st; 1897-1901. Albany, 1898-1902. 4 v. in 8, il., pl., 9 x 6, cl.
- 53 —Monthly Bulletin of the State Board of Health; 1900-01; v. 16-17. Albany, 1900-01. 2 v., 12 x 9, pap.
- NEWPORT, R. I.** Annual report of the Board of Health; 1883-86. (See On37-2.1.)
- NICARAGUA.** Sanitary aspects of the Panama and Nicaragua Canals. G. A. Soper. 1902. (See Cfb-149.)
- NORTH ADAMS, MASS.** Annual report of the Board of Health; 1896-97. (See On50-3.1.)
- 136 **NORTH CAROLINA.** Biennial report of the Board of Health; 4th, 6th, 8th; 1891-92, '95-96, '99-1900. Winston, 1893-1900. 3 v., tab., 9 x 6, pap.
- NORTHAMPTON, MASS.** Annual report of the Board of Health; 1896-97. (See On55-2.1.)
- 117 **OGDENSBURG, N. Y.** Sanitary condition of the City of Ogdensburg; report thereon. J. T. Gardiner. Ogdensburg, 1884. 15 pp., 9 x 6, pap.
- 109 **OHIO.** Annual report of the State Board of Health; 1st-15th; 1886-1900. Columbus, 1887-1900. 15 v., maps, tab., 10 x 7, cl., pap.
- 107 **ONTARIO.** Annual report of the Provincial Board of Health; 1st-13th, 15th-18th; 1882-94, '96-99. Toronto, 1883-1900. 17 v., il., tab., 10 x 6, pap., cl.
- OTTAWA, ONT.** Annual report of the Health Department; 1893-94, '96-99. (See Oo30-3.3.)
- PANAMA.** Sanitary aspects of the Panama and Nicaragua Canals. G. A. Soper. 1902. (See Cfb-149.)
- 21 **PHILADELPHIA, PA.** Report of the Board of Health to the Mayor; 1861-63. Phil., 1862-64. 3 v., 9 x 6, pap.
- 145 **PITTSBURG, PA.** Annual report of the Bureau of Health; 1891-98. Pittsburg, 1892-94. 3 v., 9 x 6, cl.
- PORTLAND, ORE.** Annual report of the Health Department; 1897-1901. (See Op46-2.1.)
- QUINCY, ILL.** Report of the Board of Health; 1899, '96-97, 1900. (See Oq9-2.1.)
- ROCKFORD, ILL.** Annual report of the Commissioner of Health; 1898-99. (See Or20-3.1.)
- 81 **ROTORUA, NEW ZEALAND.** Thermal Springs District and the Government Sanatorium at Rotorua; by A. Ginders. New Zealand-Registrar-General. Wellington, 1897. 32 pp., 9 x 6, pap.
- RUTLAND, VT.** Report of the Board of Health; 1900. (See Or35-2.1.)
- ST. JOSEPH, MO.** Annual report of the Board of Health for the fiscal year ending Apr., 1896, '99. (See Os25-3.1.)
- 141 **ST. LOUIS, MO.** Annual report of the Board of Health; 6th; for the year ending Apr. 30th, 1873. St. Louis, 1873. 1 v., tab., 9 x 6, pap.
- ST. PAUL, MINN.** Annual report of the Commissioner of Health; 1886, '88, '98. (See Os35-4.1.)
- SALT LAKE CITY, UTAH.** Annual report of the Health Department; 1892. (See Os50-3.1.)
- SAN FRANCISCO, CAL.** Municipal reports for the year ending June 30th, 1860, '65, '70-71, '73-75, 1900-01. Board of Supervisors. (See Os35-2.1.)
- SAVANNAH, GA.** Annual report of the Mayor; to which is added the Treasurer's report and reports of the different departments; 1382-98, '95. (See Os62-2.1.)
- 139 **SOMERVILLE, MASS.** Annual report of the Board of Health; 1st, 5th; 1878, '82. Note: For other reports, see Os75-2.1. Somerville, 1879-83. 2 v., maps, tab., 9 x 6, pap.
- SOUTH NORWALK, CONN.** Annual report of the Board of Health; 1898-1900. (See Os73-2.1.)
- SPRINGFIELD, MASS.** Report of the Board of Health; 1890, '95-96, '98-99. (See Os80-3.1.)
- TAUNTON, MASS.** Report of the Board of Health; 1879, '82, '84, '88-89. (See Ot10-2.1.)
- TITUSVILLE, PA.** Annual report of the Board of Health; 1880, '82, '85. (See Ot15-2.1.)
- 106 **UNITED STATES.** Annual report of the Supervising Surgeon-General of the Marine Hospital Service; 1895. Wash., 1896. 1 v., il., 9 x 6, pap.
- Municipal sanitation in the United States. C. V. Chapin. 1901. (See Ea-21.)
- Registration of vital statistics in the United States. C. V. Chapin. 1901. (See Ea-21, p. 52.)

Eg—(Continued).

- 101 —Report of the Surgeon-General of the U. S. Navy; 1900-02. Wash., 1900-02. 3 v., 9 x 6, pap.
- Vital statistics of the United States embracing the tables of deaths, births, sex, and age, to which are added the statistics of the blind, the deaf, the dumb, the insane, and idiotic; comp. by Francis A. Walker. U. S.—Census, 9th, 1870. 1872. (See Qc-9.4.)
- 137 **VERMONT.** Annual report of the Secretary of the State Board of Health; 5th-10th; for the year ending Aug. 31st, 1891-96. Rutland, 1891-96. 6 v., 9 x 6, 1/4 cl.
- WASHINGTON, D. C.** Annual report of the Commissioners of the District of Columbia for the year ending June 30th, 1896. (See Od40-2.1.)
- 144 **WILMINGTON, DEL.** Report of the President, Secretary and Treasurer of the Board of Health; 1893-94, '96-97. Wilmington, 1894-97. 4 v. in 3, tab., 9 x 6, pap.
- 138 **WISCONSIN.** Report of the State Board of Health; 5th-8th, 15th; 1880-84, '94. Note: Reports for 1884 and 1894 are biennial reports. Madison, 1881-96. 5 v., tab., 9 x 6, pap.
- WOBURN, MASS.** Annual report of the Board of Health; 1895-97. (See Ow38-3.1.)
- WOLFEBORO, N. H.** Report of the Board of Health; 1900. (See Ow39-2.1.)
- WORCESTER, MASS.** Report of the Board of Health; 1888-89, '95-96. (See Ow40-2.1.)

SANITATION—VENTILATION AND HEATING.**Eh**

- 27 **AUCAMUS, EUGENE.** Fumisterie, chauffage et ventilation. (Bibliothèque du Conducteur de Travaux Publics.) Paris, 1896. 10 + 290 pp., il., 8 x 5, ro.
- 26 **BALDWIN, W. J.** Ventilation of the school room. N. Y., 1901. 46 pp., pl., 7 x 5, cl.
- CALLARD, ERNEST.** Ventilation of the Metropolitan Ry. tunnels: Memorandum submitted to the Committee appointed by the Board of Trade; together with a verbatim reprint of the examination of the author of the memorandum, before the Committee, as given in their official report to the President of the Board of Trade, dated 3d Aug., 1897. (See Bc-60.)
- COLOMER, FELIX.** Exploitation des mines. (Bibliothèque du Conducteur de Travaux Publics.) 1899. (See Ma-71.)
- GREAT BRITAIN—BOARD OF TRADE.** Report of the Committee appointed to inquire into the system of ventilation of tunnels on the Metropolitan Ry., together with the proceedings of the Committee, minutes of evidence, appendix and index. 1897. (See Bj-11.)
- GREAT BRITAIN—PATENT OFFICE.** Abridgments of specifications relating to ventilation, A. D. 1632-1866. 1872. (See Yk-59.)
- HALBAUM, H. W. G.** New diagram of the work of mine-ventilation. 1902. (See Sd6-3.1, v. 24, p. 206.)
- MASSACHUSETTS—DISTRICT POLICE.** Report of the Chief, including the Inspection Department and the Detective Department; 1898. Note: Inspection of factories and public buildings. (See Zj-186.)
- 1 **MONROE, W. S.** Steam heating and ventilation. N. Y., 1902. 146 pp., il., 9 x 6, cl.
- 28 **NATURAL AND ARTIFICIAL METHODS OF VENTILATION.** Lond., 1899. 66 + 16 pp., il., 7 x 5, bds.
- NORTH OF ENGLAND INSTITUTE OF MINING AND MECHANICAL ENGINEERS.** Mechanical ventilators: Report of the Committee of the North of England Institute of Mining and Mechanical Engineers, and the Midland Institute of Mining, Civil and Mechanical Engineers; by M. Walton Brown. 1900. (See Sd6-3.6.)
- 10 **OEHMCKE, TH.** Mitteilungen über die Luft in Versammlungssälen, Schulen und in Räumen für öffentliche Erholung und Belehrung, sowie einiges über Förderung der Ventilationsfrage in technischer Beziehung und durch gesetzgeberische Massnahmen. München, 1901. 68 pp., 10 x 7, pap.
- PETIT, P.** Étude sur l'aérage des travaux préparatoires dans les mines à Grison. (Congrès International des Mines et de la Métallurgie, Paris, 1900.) Saint-Etienne, 1900. 465 pp., 13 pl., 9 x 6, pap. Ma-77.22.
- PRICE, G. M.** Ventilation and warming. 1901. (See Ea-18, p. 19.)
- SANITARY ENGINEER.** Plumbing problems; or, Questions, answers and descriptions relating to house-drainage and plumbing. 1885. (See Ed-29.)
- SEYMOUR, J. M.** Aplicación del aire forzado al saneamiento de talleres y habitaciones y á la combustión en los hogares de toda clase. 1890. (See Ya-27, p. 328.)
- 6 **SNOW, W. B.** Mechanical ventilation and heating by a forced circulation of warm air. no place, 1899. 31 pp., il., 9 x 6, pap.
- WALNER, ROBERT.** Die Bewetterung der Bergwerke. 1901-02. (See Mb-57.)

BRIDGES.

BRIDGES—GENERAL.

Fa

- 151 **AMERICAN BRIDGE CO.** General specifications for steel highway bridges. no place, 1901. 80 pp., 7 tab., 10 x 6, pap.
- 135 —General specifications for steel railroad bridges. no place, 1900. 23 pp., tab., 10 x 6, pap.
- 164 —Standards for structural details. no place, 1901. 102 pp., il., 10 x 7, cl.
ASSOCIATION OF RAILWAY SUPERINTENDENTS OF BRIDGES AND BUILDINGS. Proceedings of the annual convention; 1891, '99-1901. (See Sa3-45.1.)
BALTIMORE, MD.—CITY COMMISSIONER. Annual report; 1895-97. (See Ob5-8.1.)
- 150 **BENDER, C. B.** Principles of economy in the design of metallic bridges. N. Y., 1885. 95 pp., 9 pl., 9 x 8, cl.
BERTHOT, PIERRE. Ponts-canaux. no date. (See Na-188, v. 3, p. 555.)
BOSTON, MASS.—ENGINEERING DEPARTMENT. Annual report; 1894-1900. (See Ob35-3.1.)
BROCHOCKI, COMTE DE. Ponts portatifs. 1890. (See Ya-27, p. 229.)
BUFFALO, N. Y.—BUREAU OF ENGINEERING. Annual report; 1892. (See Ob50-4.1.)
BUFFALO, N. Y.—DEPARTMENT OF PUBLIC WORKS. Annual report; 1899-1900. (See Ob50-6.1.)
- 101 **CAMPIN, FRANCIS.** Diagrams to facilitate the calculation of iron bridges. Lond., 1861. unpag., 9 x 11, pap.
CHADWICK, W. Well sinking by the pneumatic process, Indus Bridge, Kotri. 1901. (See Aa-110, No. 68.)
CHICAGO, ILL.—DEPARTMENT OF PUBLIC WORKS. Annual report; 1900-01. (See Oc35-2.1.)
CHILE—COMISION DE INJENIEROS PARA INSPECCIONAR LAS LINEAS de los Ferrocarriles del Estado. Informe presentado al Ministerio de Industria i Obras Públicas. 1900. (See Ai-73.)
- 147 **COLLIGNON, EDOUARD.** Théorie élémentaire des poutres droites, ponts métalliques, ponts Américains, combles. Paris, 1865. 2 v., pl., 8 x 5, 10 x 10, ¼ ro.
- 149 **COOPER, THEODORE.** American railroad bridges. N. Y., no date. 60 pp., il., 27 pl., 7 tab., 9 x 7, cl.
- 167 —General specifications for foundations and substructures of highway and electric railway bridges. N. Y., 1902. 24 pp., 13 pl., 10 x 7, pap.
- 39a —General specifications for iron and steel highway bridges and viaducts. new and rev. ed. N. Y., 1890. 23 pp., 9 x 7, pap.
- 139 —General specifications for iron and steel railroad bridges and viaducts. new ed., rev. N. Y., 1888-90. 2 v., 10 x 7, pap.
- 148 —General specifications for steel highway and electric railway bridges and viaducts. ed. 5. N. Y., 1901. 38 pp., tab., 9 x 7, pap.
- 138 —General specifications for steel highway bridges and viaducts. new ed., rev. N. Y., 1896. 25 pp., 10 x 7, pap.
- 38a —General specifications for steel railroad bridges and viaducts. ed. 6. N. Y., 1901. 34 pp., 9 x 6, pap.
- CORDEIRO, C. X.** Mécanique appliquée: Poutres droites indépendantes et continues: Étude sur les moments d'élasticité et les efforts tranchants, maximums et minimums, et sur les flèches, avec des tables numériques pour les poutres de 2 à 5 travées. 1900. (See Fe-40.)
- 161 **DIAGRAM SHOWING SAFE CRIPPLING STRAINS AND ULTIMATE CRIPPLING strength of wrought iron columns by formulæ of Rockton specifications:**
Factor of safety = $4 + \frac{5H}{100}$. no place, no date. 2 pl., 34 x 24, pap.
- DISTRICT OF COLUMBIA—ENGINEER DEPARTMENT.** Annual reports of the operations of the Department; 1888, '86, '96-1902. (See Od40-3.1.)
- DULUTH, MINN.—CITY ENGINEER.** Annual report; 1900. (See Od80-4.1.)

Fa—(Continued).

- FAIRBAIRN, WILLIAM.** Short treatise on wrought-iron bridges. 1864. (See Jc-60a, p. 187.)
- FALL RIVER, MASS.—CITY ENGINEER.** Reports; 1882-84, '88-89, '92, '96-97. (See Of10-2.1.)
- FITCHBURG, MASS.—CITY ENGINEER.** Annual report; 1874-76, '78, '81, '84-85, '89, '96-97, 1900-01. (See Of25-2.1 and Of25-3.1.)
- 140 **FOWLER, C. E.** Engineering studies; Pt. 1-2. Contents: Pt. 1, American stone arches. Pt. 2, Roman stone arches. N. Y., 1899-1900. 2 v., il., 10 x 7, pap.
- 165 **GAUDARD, JULES.** Croquis de ponts métalliques. Paris, 1901. 158 pp., il., 13 x 10, pap.
- GLOVERSVILLE, N. Y.—COMMON COUNCIL.** Annual reports; 1901. (See Og25-2.1.)
- HASLEY, JAMES.** Railway masonry and bridge foundations. 1888. (See Ac-162.)
- HATT, W. K.** Behavior of wrought-iron cylinders under compression. 1898. (See Jc-243.)
- 187 **HAYCROFT, J. I.** "Le Pont Vierendeel": A new type of bridge. no place, 1899. pp. 38-66, il., 9 x 6, pap.
- HODSON, C. W.** Note on the design of flood openings. 1902. (See Aa-110, No. 98a.)
- HOLYOKE, MASS.—BOARD OF ALDERMEN.** Municipal register, containing the Mayor's address, city government roster, annual reports, etc.; 1875-76, '86-90, '94, '96-97. (See Oh50-3.1.)
- 162 **KEELHOFF, J.** Tracé graphique des déformations élastiques des systèmes triangulés. Bruxelles, 1902. 24 pp., il., pl., 9 x 6, pap.
- LANDSBERG, TH., ed.** Der Brückenbau. 1899. (See V-120, v. 2.)
- LEGER, ALFRED.** Les travaux publics, les mines et la métallurgie aux temps des Romains; la tradition romaine jusqu'à nos jours. 1875. (See Ca-84.)
- 157 **LILLY, G. W.** Painting of steel bridges and viaducts. no place, 1902. 15 pp., il., 9 x 6, pap.
- 153 **MASSACHUSETTS—BOARD OF RAILROAD COMMISSIONERS.** Specifications for bridges carrying electric railways, adopted by the Commission, Dec., 1901. no place, 1901. 28 pp., 9 x 6, pap. no title-page.
- 118 **MATHESON, EWING.** Works in iron: Bridge and roof structures. Lond., 1873. 16 + 331 pp., il., 10 x 7, cl.
- 122 **MAYNARD, H. N.** Viaduct works' handbook; being a collection of examples from actual practice of viaducts, bridges, roofs and other structures in iron; together with tables of prices, weights, and other information useful to engineers in designing and estimating wrought and cast-iron work. Lond., 1868. 106 pp., il., tab., 10 x 6, cl.
- MEDFORD, MASS.—MAYOR.** Address to the City Council; the city government, the financial statements, and the annual reports; 1892-94. (See Om20-2.1.)
- 16 **MEHRTENS, G. C.** Hundred years of German bridge building; tr. fr. the Ger. by Ludwig Mertens. Berlin, 1900. 135 pp., il., 7 tab., 16 x 11, ¼ cl.
- MERRIMAN, MANSFIELD.** Strength of materials: A text-book for manual training schools. 1898. (See V-111.)
- Text-book on the mechanics of materials and of beams, columns and shafts. 1900. (See V-109.)
- 112a **MERRIMAN, MANSFIELD, and H. S. JACOBY.** Text-book on roofs and bridges; v. 3., Bridge design. ed. 4. N. Y., 1902. 1 v., il., pl., 9 x 6, cl.
- MINNEAPOLIS, MINN.—CITY ENGINEER.** Annual report; 1900-01. (See Om-45.31.)
- MORSE, A.** Note on the protection of shallow well foundations from scour. 1902. (See Aa-110, No. 98.)
- MOYLE, G.** Training works for a bridge over the Teesta River, Eastern Bengal State Ry. 1902. (See Aa-110, No. 105.)
- 159 **NEW YORK CITY—COMPTROLLER.** Tunnels or bridges; being a communication to the Board of Estimate and Apportionment from Bird S. Coler, Comptroller, on the subject of transportation across the East River, with reports favoring and opposing the views therein set forth, by W. B. Parsons, Jacobs & Davies, R. S. Buck, C. C. Martin and S. R. Probasco. N. Y., 1899. 59 pp., pl., 9 x 6, pap.
- 99 **NEW YORK CITY—DEPARTMENT OF BRIDGES.** Report of the Commissioner to Robert A. Van Wyck, Mayor of the City of New York, of the business and transactions of the department; 1899. N. Y., 1900. 1 v., 9 x 6, pap.
- NEW YORK—STATE ENGINEER AND SURVEYOR.** Annual report for the fiscal year ending Sept. 30th, 1900-01. (See Cf6-25.)
- NEW YORK CENTRAL & HUDSON RIVER R. R. CO.** General specifications for steel railroad bridges. 1902. (See Ac-233.)

Fa—(Continued).

- 163 **NORFOLK & WESTERN R. R. CO.** Specifications for wrought-iron bridges. Roanoke, 1891. unpagcd, 14 x 8, pap.
OMORI, F. On the deflection and vibration of railway bridges. 1902. (See Qb-18, No. 9.)
- 152 **OSBORN ENGINEERING CO.** General specifications for highway bridge super-structures. Cleveland, 1901. 54 pp., 9 x 8, pap.
- 141 **PENNSYLVANIA R. R. CO.** Standard specifications for steel bridges. no place, 1901. 28 pp., tab., 9 x 6, pap.
- PROVIDENCE, R. I.—CITY ENGINEER.** Annual report; 1900-01. (See Op55-2.1.)
- ROCHESTER, N. Y.—DEPARTMENT OF PUBLIC WORKS.** Annual report; 1900. (Or15-3.1.)
- ROUX, ONESIME.** Ponts militaires. (Bibliothèque du Conducteur de Travaux Publics.) 1897. (See La-34, p. 458.)
- ST. PAUL, MINN.—CITY ENGINEER.** Annual report; 1886, '88, '98. (See Os35-4.1.)
- SOCIETA ITALIANA PER LE STRADE FERRATE DEL MEDITERRANEO.** Ponti e viadotti. 1900. (See Ac-151, v. 1, p. 91.)
- SPRING, F. J. E.** Notes on certain minor details of track-laying on girder bridges, on the timbering of the girders, and on girder expansion and contraction under changes of temperature. 1902. (See Aa-110, No. 106.)
- 158 **THACHER, EDWIN.** Bridge and concrete steel construction. no place, 1902. 32 pp., tab., 10 x 6, pap.
- TORONTO, ONT.—CITY ENGINEER.** Annual report; 1878-81, '99-1900. (See Ot30-2.1.)
- TRATMAN, E. E. R.** Bridge floors and grade crossings. 1901. (See Ad-300a, p. 150.)
- UNITED STATES—CONGRESS.** Ohio River Bridge Act. 1872. (See Af-475, p. 65.)
- 154 **UNITED STATES—CORPS OF ENGINEERS.** Specifications, etc., for the construction of foundations for abutments and piers for bridges. Chic., 1902. 7 pp., 14 x 8, pap. no title-page.
- 166 — Specifications, etc., for the construction of iron pile bridges. Wash., 1899. 5 pp., 14 x 8, pap. no title-page.
- 136 — Specifications, etc., for the construction of steel highway bridges. various places, 1887-1902. 4 v., 14 x 8, pap. no title-page.
- 160 — Specifications, etc., for the construction of wooden bridges. Wilmington, Del., 1890. 3 pp., 14 x 8, pap. no title-page.
- VERNON-HARCOURT, L. F.** Railway, bridge and tunnel engineering. 1902. (See V-124, p. 98.)
- 146 **WADDELL, J. A. L.** Specifications for steel bridges; taken from "De Pontibus." N. Y., 1900. 10 + 178 pp., 10 pl., 7 x 4, cl.

BRIDGES—ARCH.**Fb****GENERAL.**

- BENDER, C. B.** Principles of economy in the design of metallic bridges. 1885. (See Fa-150.)
- 45a **CAIN, WILLIAM.** Theory of steel-concrete arches and of vaulted structures. ed. 2 rev. N. Y., 1902. 181 pp., il., pl., 6 x 4, cl.
- DEBAUVE, A.** Ponts en maçonnerie. 1875. (See V-18, v. 10.)
- DU BOIS, A. J.** Metal and stone arches. 1902. (See V-121, v. 1, p. 578.)
- FOWLER, C. E.** Engineering studies; Pt. 1-2. Contents: Pt. 1, American stone arches. Pt. 2, Roman stone arches. 1899-1900. (See Fa-140.)
- FRENCH, A. W., and H. C. IVES.** Stereotomy. 1902. (See Ja-171.)
- GAUDARD, JULES.** Croquis de ponts métalliques. 1901. (See Fa-165.)
- TOLKMITT, G.** Brückengewölbe. 1899. (See V-120, v. 2, Pt. 1, p. 141.)
- 39 **NORTH AVENUE BRIDGE, BALTIMORE, MD.** Photographs of the bridge. no place, no date. phot., 21 x 27, pap.

BRIDGES—CANTILEVER.**Fc**

- 5 **BLACKWELL'S ISLAND BRIDGE.** Resolutions of the Committee of Forty in opposition to a proposed revised plan for the Blackwell's Island Bridge, adopted Sept. 25th, 1902. J. F. McDonald and others. no place, 1902. 9 pp., 9 x 6, pap.

Fc—(Continued).**GENERAL.**

BENDER, C. B. Principles of economy in the design of metallic bridges. 1885. (See Fa-150.)

GAUDARD, JULES. Croquis de ponts métalliques. 1901. (See Fa-165.)

POUGHKEEPSIE BRIDGE. Review of a project for bridging the Hudson River at Poughkeepsie. J. P. Gould. Poughkeepsie, 1876. 18 pp., 9 x 6, b. p. Aa-82, p. 245.

BRIDGES—DRAW.**Fd**

DELAWARE RIVER BRIDGE, PHILADELPHIA, PA. Die Brücke der Pennsylvania-Eisenbahn über den Delaware bei Philadelphia. F. C. Kunz. 1901. (See Fh-120.)

GENERAL.

QUINETTE DE ROCHEMONT, BARON E. T., and HENRY DESPREZ. Ponts mobiles. 1900. (See Co-115a, v. 1, p. 478.)

11 **UNITED STATES—CORPS OF ENGINEERS.** Specifications, etc., for the construction and repair of various draw bridges. various places, 1885-94. 6 v., 14 x 8, pap. no title-page.

65 **MIDDLETOWN BRIDGE, CONN.** Statement of facts in relation to the grant of a bridge at Middletown, to the New York & Boston R. R. Co.; General Assembly, May Session, 1846. no place, 1847. 24 pp., 9 x 6, pap.

BRIDGES—GIRDER.**Fe****GENERAL.**

COOPER, THEODORE. General specifications for steel railroad bridges and viaducts. 1901. (See Fa-38a.)

40 **CORDEIRO, C. X.** Mécanique appliquée: Poutres droites indépendantes et continues: Etude sur les moments d'élasticité et les efforts tranchants, maximums et minimums, et sur les flèches, avec des tables numériques pour les poutres de 2 à 5 travées. Lisbonne, 1900. 89 pp., tab., 10 x 8, pap.

5a **DEMPSEY, G. D.** Tubular and other iron girder bridges; particularly describing the Britannia and Conway tubular bridges; with a sketch of iron bridges. ed. 3. Lond., 1865. 8+ 186 pp., il., pl., 7 x 4, cl.

GAUDARD, JULES. Croquis de ponts métalliques. 1901. (See Fa-165.)

HODSON, C. W. Note on strain sheets for plate girders. 1902. (See Aa-110, No. 100.)

MERRIMAN, MANSFIELD. Moments for beams. 1898. (See V-111, p. 40.)

MERRIMAN, MANSFIELD, and H. S. JACOBY. Bridge design. 1902. (See Fa-112a, v. 3.)

38 **STEINER, CHARLES.** Theory of elasticity applied to a system of continuous girders and columns. Elmira, 1895. 15 pp., il., 9 x 6, pap.

21a **STONE, B. B.** Theory of strains in girders and similar structures; with observations on the application of theory to practice, and tables of the strength and properties of materials. new ed., rev. and enl. N. Y., 1873. 614 pp., pl., 10 x 6, cl.

21b —Same; v. 1. Lond., 1866. 1 v., il., pl., 10 x 6, cl.

41 **UNITED STATES—CORPS OF ENGINEERS.** Specifications, etc., for the construction and repair of various girder bridges. Chic., 1900. 2 v., 14 x 8, pap. no title-page.

42 **VIERENDEEL, A.** Theorie générale des poutres Vierendeel. Paris, 1900. 68 pp., pl., 10 x 7, pap.

NORFOLK & WESTERN R. R. CO. Specifications for wrought-iron bridges. 1891. (See Fa-163.)

BRIDGES—LIFT.**Ff****GENERAL.**

13 **SCHERZER, A. H.** Description of Scherzer rolling lift bridges. Chic., 1901. 68 pp., il., 23 pl., 11 x 14, cl.

Ff—(Continued).

- 3 **UNITED STATES.** Technische Aanteekeningen tijdens een bezoek aan de Vereenigde Staten van Noord-Amerika. R. P. J. Tuteln-Nolthenius. Note: Treats principally of lift bridges. s'Gravenhage, 1900. 52 pp., pl., 9 x 6, pap.

BRIDGES—SUSPENSION.**Fg**

- 112 **EAST RIVER BRIDGE, No. 3.** Form of proposals for bids or estimates, the bid or estimate, contract, bond and specifications for the construction of the tower foundation in the Borough of Brooklyn of a bridge (No. 3) over the East River between the Boroughs of Manhattan and Brooklyn. New York City-Department of Bridges. N. Y., 1901. 61 pp., pl., 11 x 8, pap.

GENERAL.

- BENDER, C. B.** Principles of economy in the design of metallic bridges. 1885. (See Fa-150.)
- DU BOIS, A. J.** Suspension system. 1902. (See V-121, v. 1, p. 609.)
- 114 **NEW EAST RIVER BRIDGE.** Contracts, plans and specifications, 1896 to 1901, inclusive. New York City-New East River Bridge Commission. N. Y., 1896-1901. various pagings, pl., 11 x 8, ½ rus.
- 110 —Form of notice, bid, contract, bond and specifications for constructing the steel and masonry approach on the Brooklyn side of the New East River Bridge, Apr., 1900. New York City-New East River Bridge Commission. no place, 1900. 38 pp., pl., 11 x 8, pap.
- 111 —Form of notice, bid, contract, bond and specifications for constructing the steel and masonry approach on the Manhattan side of the New East River Bridge, Apr., 1900. New York City-New East River Bridge Commission. no place, 1900. 38 pp., pl., 11 x 8, pap.
- 100 **NEW YORK & BROOKLYN BRIDGE.** Analysis of the specifications for steel cable wire for the East River Suspension Bridge. Albert Hill. N. Y., 1877. 17 pp., 9 x 6, pap.
- 97 —Proceedings of the Board of Trustees in relation to the material used for the superstructure of the bridge. no place, 1882. 5 pp., 9 x 6, pap.
- 99 —Report of the Board of Expert Engineers on the Manhattan Terminal of the N. Y. & B. Bridge. New York City-Commissioner of Bridges. N. Y., 1901. 32 pp., pl., 9 x 6, pap.
- 98 —Report of the Executive Committee to the Trustees upon the bids for the cable wire. no place, 1876. 16 pp., 9 x 6, pap. no title-page.
- 68 —Specifications for granite face and arch stone required for the Brooklyn Tower, East River Bridge. no place, 1873. 5 pp., 14 x 9, pap. no title-page.
- 113 **SYDNEY HARBOR BRIDGE.** Conditions of tendering, departmental specification, and general conditions for the proposed Sydney Harbour Bridge. New South Wales-Department of Public Works. Sydney, 1901. 2 v., pl., 13 x 9, bds.

BRIDGES—TRUSS.**Fh**

- 124 **BLAIR CROSSING BRIDGE.** Specifications for superstructure of bridge over the Missouri River; by George S. Morison. Missouri Valley & Blair Ry. & Bridge Co. no place, 1882. unpag., 13 x 8, pap. no title-page.
- 120 **DELAWARE RIVER BRIDGE, PHILADELPHIA, PA.** Die Brücke der Pennsylvania-Eisenbahn über den Delaware bei Philadelphia. F. C. Kunz. Wien, 1901. 13 pp., ll., 7 pl., tab., 17 x 12, pap.

GENERAL.

- 122 **AMERICAN BRIDGE CO.** Blueprints showing standard single and double track through spans, from 100 to 200 feet centre to centre of end-pins, riveted and pin connected. no place, 1902. 15 sheets, 22 x 33, pap.
- General specifications for steel highway bridges. 1901. (See Fa-151.)
- BENDER, C. B.** Principles of economy in the design of metallic bridges. 1885. (See Fa-150.)
- COLLIGNON, EDOUARD.** Théorie élémentaire des poutres droites, ponts métalliques, ponts Américains, combles. 1865. (See Fa-147.)
- 88a **COOPER, THEODORE.** General specifications for iron railroad bridges and viaducts, Class A-C. ed. 2. N. Y., 1885. 1 v., 14 x 8, pap. no title-page.
- General specifications for steel highway and electric railway bridges and viaducts. 1901. (See Fa-148.)
- General specifications for steel railroad bridges and viaducts. 1901. (See Fa-38a.)

Fh--(*Continued*).GENERAL—(*Continued*).

- MAYNARD, H. N.** Viaduct works' handbook; being a collection of examples from actual practice of viaducts, bridges, roofs and other structures in iron; together with tables of prices, weights, and other information useful to engineers in designing and estimating wrought and cast-iron work. 1868. (See Fa-122).
- MERRIMAN, MANSFIELD, and H. S. JACOBY.** Bridge design. 1902. (See Fa-112a, v. 3.)
- STEINER, FR.** Theorie der eisernen Balkenbrücken. 1901. (See V-120, v. 2, Pt. 2, p. 199.)
- 125 **UNITED STATES—CORPS OF ENGINEERS.** Specifications, etc., for the construction and repair of various truss bridges. Wash., 1887-97. 4 v., 14 x 8, pap. no title-page.
- GODAVARI BRIDGE.** Construction of the Godavari Bridge at Rajahmundry on the East Coast Ry. F. T. G. Walton. 1901. (See Aa-110, No. 86.)
- INDUS BRIDGE.** Well sinking by the pneumatic process, Indus Bridge, Kotri. W. Chadwick. 1901. (See Aa-110, No. 68.)
- 119 **INTERNATIONAL BRIDGE, BUFFALO, N. Y.** United States District Court, Northern District of New York: Proofs, pleadings, exhibits and statutes. Canada Southern Ry. Co. vs. International Bridge Co. and Grand Trunk Ry. Co. of Canada. Note: Case relates to amount of tolls or compensation to be paid by railway companies for use of the bridge and includes a description of its construction and cost. Buffalo, 1881. 552 pp., 8 x 6, ¾ ro.
- KISTNA BRIDGE.** Bridge of the North Western State Ry. over the Chenab at Sher Shah, 17 spans of 206 feet, and the bridge of the East Coast State Ry. over the Kistna at Bezwada, 12 spans of 300 feet. F. J. E. Spring. 1900. (See Aa-110, No. 71.)
- NORFOLK & WESTERN R. R. CO.** Specifications for wrought-iron bridges. 1891. (See Fa-163.)
- 123 **RHEINHAUSEN BRÜCKE.** Brücke über den Rhein bei Rheinhausen. Rheinische Eisenbahn. no place, no date. sheet, 24 x 74, pap.
- SHER SHAH BRIDGE.** Bridge of the North Western State Ry. over the Chenab, at Sher Shah, 17 spans of 206 feet, and the bridge of the East Coast State Ry. over the Kistna at Bezwada, 12 spans of 300 feet. F. J. E. Spring. 1900. (See Aa-110, No. 71.)
- 114 **SIXTH STREET BRIDGE, PITTSBURG, PA.** Specifications for the construction of the new Sixth Street Bridge, Pittsburg, Pa. N. Y., no date. 18 pp., 10 x 7, pap.
- 112 **SOUTH PENNSYLVANIA R. R. BRIDGES.** General specifications for iron bridges and viaducts. Theodore Cooper. no place, 1884. 6 pp., 14 x 8, pap.

BRIDGES—VIADUCTS.

Fi

GENERAL.

- COOPER, THEODORF.** General specifications for iron and steel highway bridges and viaducts. 1890. (See Fa-39a.)
- General specifications for iron and steel railroad bridges and viaducts. 1888-90. (See Fa-159.)
- General specifications for iron railroad bridges and viaducts, Class A-C. 1885. (See Fh-88a.)
- General specifications for steel highway and electric railway bridges and viaducts. 1901. (See Fa-148.)
- General specifications for steel highway bridges and viaducts. 1896. (See Fa-136.)
- General specifications for steel railroad bridges and viaducts. 1901. (See Fa-38a.)
- MAYNARD, H. N.** Viaduct works' handbook; being a collection of examples from actual practice of viaducts, bridges, roofs and other structures in iron; together with tables of prices, weights, and other information useful to engineers in designing and estimating wrought and cast-iron work. 1868. (See Fa-122.)
- SIROT, A.** Viaducs en maçonnerie et viaducs métalliques. (Bibliothèque du Conducteur de Travaux Publics.) 1897. (See Ac-232, p. 242.)
- 14 **KINZUA VIADUCT.** Photographs of the Kinzua Viaduct of the Erie R. R. Co. no place, 1900. 14 phot., 11 x 14.
- SOCIETA ITALIANA PER LE STRADE FERRATE DEL MEDITERRANEO.** Ponti e viadotti. 1900. (See Ac-151, v. 1, p. 91.)
- SOUTH PENNSYLVANIA R. R. VIADUCTS.** General specifications for iron bridges and viaducts. Theodore Cooper. 1884. (See Fh-112.)

MECHANICAL.

MECHANICAL—GENERAL.

Ga

- ALEXANDER, THOMAS, and A. W. THOMSON. Oil engine trials. 1902. (See Aa-110, No. 109.)
- 107 AMERICAN MANUFACTURING CO. Little blue book on rope transmission. ed. 3, rev. N. Y., 1902. 46 pp., il., tab., 8 x 6, mor.
- ANTHONI, GUSTAVE. Nouveau système d'isolement complet et stable des constructions, des machines, véhicules et appareils quelconques en vue d'amortir les chocs et les vibrations et de diminuer le bruit qui en résulte. 1890. (See Ya-27, p. 303.)
- AUCAMUS, EUGENE, and L. GALINE. Tramways et automobiles. (Bibliothèque du Conducteur de Travaux Publics.) 1900. (See Bd-45.)
- 156 AUGHTIE, HERBERT. Construction of foundry patterns: An elementary manual for engineering students and apprentices. Manchester, England, 1901. 8 + 166 + 2 pp., il., 9 x 6, cl.
- BARR, W. M. Pumping machinery: A practical hand-book relating to the construction and management of steam and power pumping machines. 1900. (See Dc-1086.)
- BAUMASCHINEN, DIE. 1897. (See V-120, v. 4.)
- BOURNE, JOHN. Examples of modern steam, air and gas engines of the most recent approved types as employed for pumping, for driving machinery, for locomotion, and for agriculture, minutely and practically described; Pts. 1-20. 1868-70. (See Gc-109.)
- 108 BRAMWELL, C. C. Construction of a gasoline motor vehicle. N. Y., 1901. 149 pp., il., pl., 9 x 6, cl.
- 157 BUHLE, M. Technische Hilfsmittel zur Beförderung und Lagerung von Sammelkörpern (Massengütern); v.1. Berlin, 1901. 1 v., il., pl., 13 x 10, cl.
- 131 CONGRES INTERNATIONAL DE MECANIQUE APPLIQUEE, PARIS, 1900. Procédés. Contents: v. 1, Rapports présentés au Congrès. v. 2, Séances du Congrès: Procès-verbaux. v. 3, Séances du Congrès: Communications et conférences. Paris, 1900-01. 3 v., il., tab., 13 x 9, pap.
- CRUGNOLA, GAETANO. Gli impianti meccanici ed elettrici per i servizi tecnici generali dell'esposizione. (Esposizione Universale del 1900 a Parigi.) 1900. (See Yf-150.)
- 144 DANILEWSKY, CONSTANTIN. Ein lenkbarer Flug-Apparat; aus dem Russischen übersetzt. Charkow, 1900. 4 + 82 pp., il., phot., 10 x 7, pap.
- 145 DAVIS, C. H., and J. S. GRIGGS, Jr. Mechanical and electrical equipment of a printing house. no place, 1901. 26 pp., il., 10 x 7, pap.
- DAWSON, PHILIP. Gas engines. 1901. (See Ba-13, p. 809.)
- DEBAUVE, A. Outillage et organisation des chantiers. 1894. (See V-129, v. 4.)
- DELACHANAL, E. Improvements in mechanical appliances for the working plant of ports: Report. (International Cong. on Navigation, 8th.) Paris, 1900. 17 pp., 3 pl., 11 x 7, pap. Ca-8.41.
- DODD, GEORGE. Dictionary of manufactures, mining, machinery and the industrial arts. 1869. (See U-88.)
- 124b ENGINEER AND MACHINIST'S ASSISTANT; being a series of plans, sections and elevations of steam engines, spinning machines, mills for grinding, tools, etc., taken from machines of approved construction at present in operation; with descriptions and instructions for drawing machinery; also, an introduction and essays on various departments of machinery. Glasgow, 1849. 2 v., il., pl., 15 x 10, 1/2 mor.
- 155 ERNST, AD. Die Hebezeuge, Theorie und Kritik ausgeführter Konstruktionen mit besonderer Berücksichtigung der elektrischen Anlagen: Ein Handbuch für Ingenieure, Techniker und Studierende: dritte neubearbeitete Auflage unter Mitwirkung von W. Maier und R. Rau. Berlin, 1899. 3 v., il., 10 x 7, cl.
- 65a GLYNN, JOSEPH. Rudimentary treatise on the construction of cranes, and machinery for raising heavy bodies, for the erection of buildings, and for hoisting goods. ed. 4. Lond., 1865. 7 + 123 pp., il., 7 x 4, cl.

Ga—(Continued).

- 30 **GRAVES, W. J.** Holding power of screws in wood. no place, 1900. pp. 113-124, il., 5 tab., 10 x 6, pap.
- HOLLEY, A. L.** Albany and Rensselaer Iron and Steel Works, Troy, N. Y. Lond., 1881. 9 pp., il., pl., 10 x 8, b. p. Af-302, p. 155.
- HUBERT, H.** Utilisation directe des gaz de hauts-fourneaux pour la production de la force motrice. (Congrès International des Mines et de la Métallurgie, Paris, 1900.) Saint-Étienne, 1900. 57 pp., 9 x 6, pap. Ma-77.8.
- INSTITUTION OF JUNIOR ENGINEERS.** Course of six lectures, with discussions, on the management of engineering workshops, delivered by Arthur H. Barker, Feb. to Apr., 1901. (See Sd6-11.3.)
- INSTITUTION OF MECHANICAL ENGINEERS.** Proceedings; 1900-01. (See Sd6-17.1.)
- INTERNATIONAL ENGINEERING CONGRESS, GLASGOW, 1901.** Report of the proceedings and abstracts of the papers read; with a preface by Robert Caird, Chairman of the Executive Committee. 1902. (See Aa-109.)
- KEELY MOTOR CO.** Proceedings of the Stockholders at their annual meeting, Dec. 14th, 1887. Phil., 1887. 11 pp., 9 x 6, b. p. Za-38, p. 119.
- Report of the Directors to the Stockholders, June 6th, 1885. N. Y., 1885. 2 pp., 9 x 6, b. p. no title-page. Za-38, p. 116.
- 160 **KERR, E. W.** Power and power transmission. N. Y., 1902. 12 + 356 pp., il., 9 x 6, cl.
- KNIGHT'S AMERICAN MECHANICAL DICTIONARY:** A description of tools instruments, machines, processes and engineering; history of inventions; general technological vocabulary; and digest of mechanical appliances in science and the arts; by Edward H. Knight, 1876. (See U-92.)
- KNIGHT'S NEW MECHANICAL DICTIONARY:** A description of tools, instruments, machines, processes and engineering, with indexical references to technical journals, 1876-1880; by Edward H. Knight. 1883. (See U-92a.)
- LIDLLEY, T. T. S.** Remarks on the proposition recently made to remove the Emery testing machine from Watertown Arsenal to some other locality. 1882. (See Jc-247.)
- MASTER CAR-BUILDERS' ASSOCIATION.** Report of the Committee on Standard Screw Threads. N. Y., 1882. 19 pp., 9 x 6, b. p. Af-304, p. 109.
- MUNTADAS, LUIS.** Dos palabras sobre la teoría de las continuas de anillo. 1890. (See Ya-27, p. 316.)
- MURPHY, E. C.** The windmill; its efficiency and economic use; Pt. 1. (U. S. Geological Survey. Water Supply and Irrigation Papers.) 1901. (See De-81, No. 41.)
- NORTH OF ENGLAND INSTITUTE OF MINING AND MECHANICAL ENGINEERS.** Mechanical ventilators; Report of the Committee of the North of England Institute of Mining and Mechanical Engineers, and the Midland Institute of Mining, Civil and Mechanical Engineers; by M. Walton Brown. 1900. (See Sd6-8.6.)
- Subject-matter index of mining, mechanical and metallurgical literature; 1900. (See Sd6-8.7.)
- Transactions; 1852-54, '58-68, '99-1900. (See Sd6-8.1.)
- 108 **PARSELL, H. V. A., Jr., and A. J. WEED.** Gas engine construction: A practical treatise describing the theory and principles of the action of gas engines of various types, and the design and construction of a half horse power gas engine. N. Y., 1900. 296 pp., il., 9 x 6, cl.
- 90 **PERISSE, L.** Automobiles sur routes. (Encyclopédie Scientifique des Aide-Mémoire.) Paris, 1897 (?) 206 pp., 8 x 5, pap.
- REID, J. S. and DAVID.** Text-book of mechanical drawing and elementary machine design. 1901. (See R-87.)
- 95 **RICHARDS, J.** Treatise on the construction and operation of wood-working machines, including a history of the origin and progress of the manufacture of wood-working machinery. Lond., 1872. 20 + 288 pp., il., pl., 10 x 7, cl.
- 86 **ROBERTS, E. W.** Gas-engine handbook: A manual of useful information for the designer and the engineer. ed. 3, rev. and enl. Cin., 1900. 10 + 241 pp., il., tab., 5 x 4, mor.
- 159 **ROSE, JOSHUA.** Modern machine-shop practice. N. Y., 1887-88. 2 v., il., pl., 13 x 10, 1/4 mor.
- 163 **SENCIER, PAUL.** Les automobiles et les cycles. Paris, 1901. 50 pp., il., 13 x 9, pap.
- SMITH, A. W.** Materials of machines. 1902. (See Yi-106.)
- 98 **SOCIETY FOR THE DIFFUSION OF USEFUL KNOWLEDGE.** Series of diagrams illustrative of the principles of mechanical philosophy and their practical application. Lond., 1846. 12 pp., 21 pl., 18 x 14, cl.
- 85 **STETEFELD, RICHARD.** Die Eis- und Kalteerzeugungs-Maschinen, ihr Bau und ihre Verwendung in der Praxis; ein Compendium der gesamten Kälte-Industrie. Stuttgart, 1901. 11 + 488 pp., il., pl., 9 x 7, 3/4 mor.

Ga—(Continued).

- 153 **THURSTON, R. H.** Friction and lubrication: Determinations of the laws and coefficients of friction by new methods and with new apparatus. N. Y., 1879. 211 + 14 pp., il., tab., 8 x 5, cl.
- 146 **TRENTON IRON CO.** Wire rope; effect of bending upon wire rope and its application to the transmission of power, suspension bridges and wire cable ferries, wire rope fittings, sheaves and tackle blocks. Trenton, 1901. 49 pp., il., 8 x 6, pap.
- 161 **UHLAND, W. H., ed.** Branchen-Ausgabe des Skizzenbuchs für den praktischen Maschinen-Constructeur: Ein Hilfsbuch für Techniker, sowie für Schüler technischer Lehranstalten, mit Ergänzungsheften. Dresden, 1890-97. 19 v. in 46, pl., 9 x 11, bds., pap.
- v. 1. Maschinenelemente und Bewegungsmechanismen.
 - v. 2. Triebwerke.
 - v. 3. Dampfkessel- und Feuerungsanlagen.
 - v. 4. Dampfmaschinen.
 - v. 5. Regulatoren, Condensatoren und Vorwärmer.
 - v. 6. Luft- u. Gasmotoren, Göpel und Windräder.
 - v. 7. Wasserbau und Wassermotoren.
 - v. 8. Werkzeugmaschinen.
 - v. 9. Hebezeuge.
 - v. 10. Pumpen, Feuerspritzen und Gebläse.
 - v. 11. Pressen.
 - v. 12. Centrifugen, Trockeneinrichtungen, Rührwerke, Knet- und Mischmaschinen.
 - v. 13. Müllerei- und Zerkleinerungsmaschinen.
 - v. 14. Dachconstructionen in Holz und Eisen und Eisenconstructionen.
 - v. 15. Armaturen und Schmierapparate.
 - v. 16. Dynamomaschinen und elektrische Leitungen.
 - v. 17. Holzbearbeitungsmaschinen.
 - v. 18. Schutzvorrichtungen.
 - v. 19. Metallbearbeitungsmaschinen.
- 5 **UNITED STATES—CORPS OF ENGINEERS.** Specifications, etc., for furnishing hoisting engines and boilers. various places, 1888-91. 2 v., 14 x 8, pap. no title-page.
- 150 — Specifications, etc., for furnishing, setting up, and testing a suspension cableway. Wash., 1895. 3 pp., 14 x 9, pap. no title-page.
- 7 — Specifications, etc., for furnishing stone crusher, concrete mixer, etc. various places, 1898-97. 2 v., 14 x 8, pap. no title-page.
- Specifications, etc., for iron and steel roofs, stairs, railings, ladders, ammunition lifts and cranes, tramralls, trolleys and hoists for Fort Washington, Md. 1900. (See Ja-99.)
- 147 — Specifications, etc., for refrigerating plants for the U. S. snagboats *J. N. McComb and H. G. Wright*. St. Louis, 1902. 10 pp., 14 x 8, pap. no title-page.
- 27 **UNITED STATES—SENATE COMMITTEE ON CLAIMS.** Report on the claim of A. H. Emery for designing and building a testing machine erected at the Watertown Arsenal, Mass. (47th Cong., 1st Sess. Senate rep. No. 17.) no place, 1890. 8 pp., 8 x 5, pap. no title-page.
- WILLIAMS, E. L.** On the mechanical appliances employed in the construction of the Manchester Ship Canal. 1891. (See Cfc-62.)

MECHANICAL—HYDRAULIC MACHINERY.**Gb**

- 14 **CHAUDY, F.** Machines hydrauliques. (Bibliothèque du Conducteur de Travaux Publics.) Paris, 1896. 8 + 402 pp., il., 8 x 5, ro.
- KERR, E. W.** Power and power transmission. 1902. (See Ga-160.)
- 13 **MARKS, G. C.** Hydraulic power engineering: A practical manual on the concentration and transmission of power by hydraulic machinery. Lond., 1900. 16 + 360 pp., il., 8 x 6, cl.
- REBOUCAS, ANDRE.** These de concurso. Contents: Estudo das leis de equilibrio molecular dos solidos e sua applicação ao empuxo das terras. Motores empregados na locomoção terrestre. Receptores hydraulicos. 1890. (See Ac-48.)

MECHANICAL—STEAM ENGINES.**Gc**

- ASSOCIATIONS FRANCAISES DE PROPRIETAIRES D'APPAREILS A Vapeur.** Exposition Universelle de 1900: Groupe 4; mecanique general, Classe 19; machines à vapeur: Exposition collective des Associations. 1900. (See Yf-157.)

Gc—(Continued).

- 99 **BARRUS, G. H.** Engine tests embracing the results of over one hundred feed-water tests and other investigations on various kinds of steam engines, conducted by the author. N. Y., 1900. 339 pp., il., tab., 9 x 6, cl.
- 109 **BOURNE, JOHN.** Examples of modern steam, air and gas engines of the most recent approved types, as employed for pumping, for driving machinery, for locomotion and for agriculture, minutely and practically described; Pts. 1-20. Lond., 1868-70. 287 + 108 pp. (in 20 Pts.), pl., 13 x 10, pap.
- 107 **CONGRES DES INGENIEURS EN CHEF DES ASSOCIATIONS DE PROPRIETAIRES d'Appareils à Vapeur.** Compte rendu des séances; 23d-25th; 1899-1901. Paris, 1899-1901. 3 v., il., 6 pl., tab., 10 x 7, pap.
- 108 **CUVILLIER, T.** Législation & contrôle des appareils à vapeur. (Bibliothèque du Conducteur de Travaux Publics.) Paris, 1897. 10 + 388 pp., il., 8 x 5, ro.
- DAWSON, PHILIP.** Steam engines and steam boilers. 1901. (See Ba-13, p. 183.)
- 104 **DEJUST, J.** Machines à vapeur et machines thermiques diverses. (Bibliothèque du Conducteur de Travaux Publics.) Paris, 1899. 8 + 600 pp., il., 8 x 5, ro.
- DURAND, W. F.** Marine engines. 1901. (See Ka-107, p. 154.)
- 103 **GIRARD, J. B.** Traité pratique des machines marines motrices, des machines auxiliaires, des machines à pétrole et à gaz; description, montage, régulation, conduite, réparations rédigé conformément aux programmes à l'usage des Mécaniciens de la Marine militaire à ceux de la Marine du commerce. Paris, 1901. 2 v., il., pl., 8 x 5, cl.
- KERR, E. W.** Power and power transmission. 1902. (See Ga-160.)
- 80a **MAIN, T. J., and THOMAS BROWN.** Questions on subjects connected with the marine steam-engine, and examination papers, with hints for their solution. Phil., 1863. 156 pp., 9 x 6, cl.
- 105 **PICKWORTH, C. N.** Indicator handbook: A practical manual for engineers. Contents: v. 1, The indicator; its construction and application. v. 2, The indicator diagram; its analysis and calculation. Manchester, England, 1898-1901. 2 v., il., 7 x 5, cl.
- 102 **PULLEN, W. W. F.** Steam engineering: A treatise on boilers, steam, gas and oil engines, and supplementary machinery, with instructions for carrying out numerous simple experiments adapted for the use of elementary students in technical schools and science classes. Manchester, England, no date. 344 pp., il., pl., tab., 9 x 6, cl.
- Treatise on the methods and instruments used in testing and experimenting with engines, boilers and auxiliary machinery. 1900. (See V-114, v. 1.)
- 101 **RANKINE, W. J. M.** Manual of the steam engine and other prime movers. ed. 5, rev. Lond., 1870. 32 + 575 pp., il., tab., 7 x 5, cl.
- UHLAND, W. H., ed.** Dampfmaschinen. 1894. (See Ga-161, v. 4.)
- 106 **WEISS, F. J.** Kondensation: Ein Lehr- und Handbuch über Kondensation und alle damit zusammenhängenden Fragen, auch einschliesslich der Wasserrückkühlung. Berlin, 1901. 16 + 384 pp., il., tab., 9 x 6, cl.

MECHANICAL—BOILERS.

Gd

- 80 **BERTIN, L. E.** Chaudières marines: Cours de machines à vapeur professé à l'Ecole d'Application du Génie Maritime. ed. 2. Paris, 1902. 574 pp., il., tab., 11 x 8, pap.
- BOURNE, JOHN.** Examples of modern steam, air and gas engines of the most recent approved types, as employed for pumping, for driving machinery, for locomotion, and for agriculture, minutely and practically described; Pts. 1-20. 1868-70. (See Gc-109.)
- 77 **CHRISTIE, W. W.** Furnace draft; its production by mechanical methods. Paterson, N. J., 1901. 44 pp., il., tab., 6 x 4, cl.
- CONGRES DES INGENIEURS EN CHEF DES ASSOCIATIONS DE PROPRIETAIRES d'Appareils à Vapeur.** Compte rendu des séances; 1899-1901. (See Gc-107.)
- CUVILLIER, T.** Législation & contrôle des appareils à vapeur. (Bibliothèque du Conducteur de Travaux Publics.) 1897. (See Gc-108.)
- DAWSON, PHILIP.** Steam engines and steam boilers. 1901. (See Ba-13, p. 183.)
- 78 **DEJUST, J.** Chaudières à vapeur. (Bibliothèque du Conducteur de Travaux Publics.) Paris, 1898. 8 + 562 pp., il., pl., 8 x 5, ro.
- DEMOULIN, MAURICE.** La chaudière de la locomotive. (Bibliothèque du Conducteur de Travaux Publics.) 1896. (See Ad-381, p. 17.)
- DURAND, W. F.** Fuels and boilers for marine purposes. 1901. (See Ka-107, p. 31.)
- EDWARDS, EMORY.** Strength of boilers. 1883. (See Ad-272, p. 151.)
- 79 **GILL, A. H.** Gas and fuel analysis for engineers: A compend for those interested in the economical application of fuel, prepared especially for the use of students at the Massachusetts Institute of Technology. ed. 3, rev. and enl. N. Y., 1902. 4 + 109 pp., il., tab., 7 x 5, cl.

Gd—(Continued).

- GOODRICH, W. F. Comparative efficiency of various types of steam boilers for destructor and power plants. 1901. (See Ef-26, p. 44.)
- 33 GREAT BRITAIN—LORDS COMMISSIONERS OF THE ADMIRALTY. Interim report of the Committee appointed by the Lords Commissioners of the Admiralty to consider certain questions respecting modern types of boilers for naval purposes. Lond., 1901. 42 pp., tab., 12 x 9, pap. no title-page.
- 75 KENT, WILLIAM. Steam-boiler economy: A treatise on the theory and practice of fuel economy in the operation of steam-boilers. N. Y., 1901. 14 + 458 pp., il., tab., 9 x 6, cl.
- KERR, E. W. Power and power transmission. 1902. (See Ga-160.)
- KOYL, C. H. Work of railroad men on the problem of pure water for steam boilers. 1900. (See Db-39.)
- MANCHESTER STEAM USERS' ASSOCIATION. Memorandum by the Chief Engineer. 1901. (See Sd6-31.2.)
- MASSACHUSETTS—DISTRICT POLICE. Report of the Chief, including the Inspection Department and the Detective Department; 1898. (See Zj-186.)
- 32 MISSISSIPPI RIVER COMMISSION. Specifications, etc., for steel boilers. St. Louis, 1900. 10 pp., 14 x 9, pap. no title-page.
- MONTREAL, QUE.—INSPECTOR OF BOILERS. Annual report; 1898-99. (See Om55-2.1.)
- PULLEN, W. W. F. Steam engineering: A treatise on boilers, steam, gas and oil engines, and supplementary machinery, with instructions for carrying out numerous simple experiments adapted for the use of elementary students in technical schools and science classes. no date. (See Gc-102.)
- Treatise on the methods and instruments used in testing and experimenting with engines, boilers and auxiliary machinery. 1900. (See V-114, v. 1.)
- RANKINE, W. J. M. Of furnaces and boilers. 1870. (See Gc-101, p. 449.)
- 86 RIEGER, A. Die Überhitzung und ihre praktische Verwerthung. no place, no date. 8 pp., 12 x 9, pap.
- 76 ROBERTSON, L. S. Water-tube boilers; based on a short course of lectures delivered at University College, London. N. Y., 1901. 15 + 218 pp., il., 9 x 6, cl.
- ROUVIERE, LUIS. Necesidad actual de la trasformación de la máquina de vapor: Mi tentativa de reforma. 1890. (See Ya-27, p. 84.)
- 66 SNOW, W. B. Application of mechanical draft to stationary boilers. no place, 1900. 22 pp., il., 9 x 6, pap.
- 52 STEVENS, F. B. Letter descriptive of the experiments on the strength and management of the steam-boilers belonging to the United R. R. Companies of New Jersey; together with a report of the Board appointed. no place, 1871. unpag., 13 x 8, pap. no title-page.
- UHLAND, W. H., ed. Dampfkessel und Feuerungsanlagen. 1890. (See Ga-161, v. 3.)
- Regulatoren, Condensatoren und Vorwärmer. 1890. (See Ga-161, v. 5.)
- 53 UNITED STATES—CORPS OF ENGINEERS. Specifications, etc., for furnishing and repairing boilers for boats, locks, etc. various places, 189-. 10 v., 14 x 8, pap. no title-page.
- 84 —Specifications, etc., for furnishing fuel. various places, 1882-1902. 4 v., 14 x 8, pap. no title-page.
- UNITED STATES—OFFICE OF NAVAL INTELLIGENCE. Coaling, docking and repairing facilities of the ports of the world, with analysis of different kinds of coal. 1900. (See Ka-82c.)
- Notes on progress in marine boilers; 1900-02. (See Ka-71.)
- Use of liquid fuel for marine boilers; 1900-02. (See Ka-71.)

MECHANICAL—COMPRESSED AIR.

Ge

- AUCAMUS, EUGENE, and L. GALINE. Traction par l'air comprimé. (Bibliothèque du Conducteur de Travaux Publics.) 1900. (See Bd-45, p. 239.)
- 21 COX, WILLIAM. Cox's compressed-air discharge computer. no place, no date. unpag., 6 x 5, mor.
- DEBAUVE, A. Fondations par l'air comprimé. 1894. (See V-129, v. 2, p. 274.)
- FRIZELL, J. P. Transmission of power by compressed air. 1901. (See Dd-33, p. 411.)
- 22 HISCOX, G. D. Compressed air; its production, uses and applications, comprising the physical properties of air from a vacuum to its liquid state, its thermodynamics, compression, transmission and uses as a motive power. N. Y., 1901. 822 pp., il. por., 10 x 7, cl.
- KERR, E. W. Power and power transmission. 1902. (See Ga-160.)
- 20 RICHARDS, FRANK. Compressed air: Practical information upon air-compression and the transmission and application of compressed air. N. Y., 1901. 5 + 208 pp., il., 7 tab., 8 x 5, cl.

ELECTRIC.

ELECTRIC—GENERAL.

Ha

- AMERICAN ELECTROCHEMICAL SOCIETY.** Transactions; 1902. (See Sa3-188.2.)
- AMERICAN INSTITUTE OF ELECTRICAL ENGINEERS.** Transactions; 1900-01. (See Sa3-4.1.)
- AMERICAN WATER-WORKS ASSOCIATION.** Report of the Special Committee on Electrolysis. 1900. (See Sa3-6.5.)
- 74 **ARNOLD, E.** Armature windings of direct current dynamos: Extension and application of a general winding rule; tr. fr. the original German by Francis B. De Gress. N. Y., 1902. 6 + 124 pp., il., 9 x 6, cl.
- 72 **ATKINSON, A. A.** Electrical and magnetic calculations for the use of electrical engineers and artisans, teachers, students, and all others interested in the theory and application of electricity and magnetism. N. Y., 1902. 7 + 810 pp., il., tab., 7 x 5, cl.
- 76 **AYRTON, HERTHA.** Electric arc. N. Y., 1902. 25 + 479 pp., il., pl., 9 x 6, cl.
- BALTIMORE, MD.—ELECTRICAL SUBWAY COMMISSION.** Annual report to the Mayor and City Council; 1896. (See Ob5-3.1.)
- BROWN, H. P., and others.** Reports on investigation of electrolysis as affecting the water pipes, submitted to the Trustees of Water-Works, Dayton, Ohio. 1896. (See De-40, Annual report, 1896, p. 140.)
- CAMBRIDGE, MASS.—ELECTRICAL DEPARTMENT.** Annual report; 1899. (See Oc5-3.1.)
- CINCINNATI, OHIO—ELECTRICAL DEPARTMENT.** Annual report; 1897. (See Oc45-2.1.)
- 58 **CINCINNATI UNDERWRITERS' ASSOCIATION.** Report of the Electrician, Nov. 30th, 1897. Cin., 1897. 19 pp., 9 x 6, pap.
- CRUGNOLA, GAETANO.** Gli impianti meccanici ed elettrici per i servizi tecnici generali dell'esposizione. (Esposizione Universale del 1900 a Parigi.) 1900. (See Yf-150.)
- 64 **DACREMONT, EDOUARD.** Électricité. (Bibliothèque du Conducteur de Travaux Publics.) Contents: v. 1, Théorie et production. v. 2, Applications industrielles. Paris, 1898-99. 2 v., il., 8 x 5, ro.
- 70 **DOLEZALEK, FRIEDRICH.** Die Theorie des Bleiaccumulators. Halle, 1901. 6 + 122 pp., il., tab., 10 x 7, cl.
- 71 **ELECTRICAL CATECHISM:** 533 plain answers to 533 practical questions about electrical apparatus; comp. fr. the regular issues of *Power*. N. Y., 1902. 210 pp., il., 9 x 6, cl.
- 78 **ELECTRICITE A L'EXPOSITION DE 1900, L'**; publiée par E. Hospitalier et J. A. Montpellier; Pts. 2, 4-5, 14. Contents: Pt. 2, Production de l'énergie électrique, Pt. 4, Transformation de l'énergie électrique; par E. Hospitalier et A. Bainville, Pt. 5, Canalisation et appareillage de l'électricité; par E. Hospitalier. Pt. 14, Compteurs électriques; par J. A. Montpellier et Aliamet. Paris, 1900-01. 4 v., il., pl., 13 x 9, pap.
- 67 **FLEMING, J. A.** Handbook for the laboratory and testing room; v. 1. N. Y., 1901. 1 v., il., 9 x 6, cl.
- FOSTER, H. A.** Electrical engineer's pocket book: A hand-book of useful data for electricians and electrical engineers. 1901. (See V-122.)
- FOWLER'S ELECTRICAL ENGINEERS' YEAR BOOK;** 1901-02. (See V-112.)
- GREAT BRITAIN—PATENT OFFICE.** Abridgments of specifications relating to electricity and magnetism. Contents: v. 1, 1766-1857. v. 2, 1858-66. v. 3, Div. 4, 1877-83, Electric lighting, igniting and heating. 1859-93. (See Yk-37.)
- 12 **HEYLAND, ALEXANDER.** Die ersten Versuchsergebnisse am kompensierten Asynchronomotor. Berlin, 1902. 5 pp., il., 11 x 7, pap.
- 75 **HOBBS, W. R. P.** Arithmetic of electrical measurements with numerous examples, fully worked; rev. to date by Richard Wormell. ed. 10. Lond. pref. date, 1902. 112 pp., il., 7 x 5, cl.

Ha—(Continued).

- HOLYOKE WATER POWER CO. vs. CITY OF HOLYOKE.** Testimony. Note: Case relates to the valuation of the water power and the gas and electric light and power plants. 1899-1902. (See Ia-28.)
- 28 **INTERNATIONAL ELECTRICAL CONGRESS, CHICAGO, 1893.** Proceedings. N. Y., 1894. 24 + 488 pp., il., tab., 9 x 6, cl.
- INTERNATIONAL ENGINEERING CONGRESS, GLASGOW, 1901.** Report of the proceedings and abstracts of the papers read; with a preface by Robert Caird, Chairman of the Executive Committee. 1902. (See Aa-109.)
- 63 **JACKSON, D. C., and J. P.** Elementary book on electricity and magnetism and their applications: A text-book for manual training schools and high schools, and a manual for artisans, apprentices and home readers. N. Y., 1902. 11 + 482 pp., il., 8 x 6, 1/2 sh.
- 62 **JANET, P.** Leçons d'électrotechnique générale, professées à l'École Supérieure d'Électricité. Paris, 1900. 9 + 614 pp., 10 x 6, 1/2 mor.
- 65 **JONES, H. C.** Outlines of electrochemistry. N. Y., 1901. 6 + 106 pp., il., 10 x 7, cl.
- KONINKLIJK INSTITUUT VAN INGENIEURS.** Eerste gedeelte der veiligheidsvoorschriften voor elektrische sterkstroominstallaties. 1900. (See Sd9-2.7.)
- 77 **KRATZERT, HEINRICH.** Grundriss der Elektrotechnik für den praktischen Gebrauch, für Studierende der Elektrotechnik und zum Selbststudium; v. 2. Pts. 2-5. Contents: v. 2, Pt. 2, Elektrische Beleuchtung. v. 2, Pt. 3, Kraftübertragung, Bahnen und Automobile, Kosten elektrischer Anlagen und Sicherheitsvorschriften. v. 2, Pt. 4, Electrochemie. v. 2, Pt. 5, Elektrotechnik im Bergbau, in der Landwirtschaft und Schifffahrt. Leipzig, 1902. 1 v. in 4, il., 9 x 6, pap.
- LIBERT, JOSEPH.** Emploi de l'électricité dans les mines. (Congrès International des Mines et de la Métallurgie, Paris, 1900.) Saint-Étienne, 1900. 130 pp., 9 x 6, pap. Ma-77.7.
- LYNN, MASS.—CITY ELECTRICIAN.** Report; 1901. (See O160-3.1.)
- 69 **MANSFIELD, A. N.** Electromagnets; their design and construction. N. Y., 1901. 155 pp., il., 6 x 4, bds.
- 57 **MAURY, D. H.** Electrolysis of underground metal structures. no place, no date. 22 pp., il., 9 x 6, pap.
- NEDERLANDSCHE VEREENIGING VOOR ELECTROTECHNIEK.** Notulen; 1895-96. (See Sd9-1.1.)
- 1 **NORRIE, H. S. (NORMAN H. SCHNEIDER.)** Induction coils: How to make, use, and repair them, including Ruhmkorff, Tesla, and medical coils, Roentgen radiography, wireless telegraphy, and practical information on primary and secondary battery. ed. 2, rev. and enl. N. Y., 1901. 16 + 269 pp., il., tab., 7 x 5, cl.
- 66 **PARR, G. D. A.** Electrical engineering testing: A practical work for second and third year students, engineers and others. Lond., 1902. 8 + 474 pp., il., 9 x 6, cl.
- POUGHKEEPSIE, N. Y.—WATER COMMISSIONERS.** Electrolysis in water pipes. 1895-96. (See De-122, Annual report, 1894, p. 16; 1895, p. 21.)
- ROCHESTER, N. Y.—BUREAU OF ENGINEERING.** Electrolysis in the water pipe system: Report of an investigation by Edwin A. Fisher, City Engineer. 1901. (See De-1090.)
- ST. PAUL, MINN.—BOARD OF WATER COMMISSIONERS.** Report upon electrolysis in the City of St. Paul, Minn.; also, action of the Board and opinions of the Corporation Attorney relating to the same, Nov. 9th, 1901. (See De-235, Annual report, 1901, p. 81.)
- 73 **SHELDON, SAMUEL, and HOBART MASON.** Dynamo electric machinery; its construction, design and operation. Contents: v. 1, Direct current machines. v. 2, Alternating current machines. N. Y., 1900-02. 2 v., il., 8 x 6, cl.
- SOUTH NORWALK, CONN.—BOARD OF ELECTRICAL COMMISSIONERS.** Annual report; 1898-1900. (See Os78-2.1.)
- 61 **STEINMETZ, C. P.** Theoretical elements of electrical engineering. N. Y., 1901. 7 + 327 pp., il., 9 x 6, cl.
- UNITED STATES—OFFICE OF NAVAL INTELLIGENCE.** Use of electricity on naval ships; 1900-02. (See Ka-71.)
- 55 **UNITED STATES—WEATHER BUREAU.** Loss of life in the United States by lightning; by Alfred J. Henry. (Bulletin No. 30.) Wash., 1901. 21 pp., maps, 9 x 6, pap.
- WENDELIN, WOLFGANG.** L'électricité dans l'industrie minière. (Congrès International des Mines et de la Métallurgie, Paris, 1900.) Saint-Étienne, 1900. 49 pp., 9 x 6, pap. Ma-77.10.
- 31 **WOLCOTT, TOWNSEND, A. E. KENNELLY and RICHARD VARLEY.** The electro magnet. ed. 2. no place, 1900(?) 127 pp., il., por., tab., 7 x 5, cl.

Ha—(Continued).

- 68 **WORDINGHAM, C. H.** Central electrical stations; their design, organization and management. Lond., 1901. 16 + 496 pp., il., pl., 9 x 6, cl.

ELECTRIC—LIGHT.**Hb**

- ALLEGHENY, PA.—BUREAU OF PUBLIC LIGHTING.** Report; 1898. (See Oa20-2.1.)
- AYRTON, HERTHA.** Electric arc. 1902. (See Ha-76.)
- BROWN'S DIRECTORY OF AMERICAN GAS COMPANIES; GAS STATISTICS;** 1901. Note: Includes statistics of electrical departments where such departments are operated by the gas company. (See Ia-28.)
- CHICOPPEE, MASS.—MANAGER OF ELECTRIC LIGHT.** Report; 1896-97, '99. (See Oc40-2.1.)
- 48 **CROCKER, F. B.** Electric lighting: A practical exposition of the art for the use of engineers, students and others interested in the installation or operation of electrical plants. v. 1, ed. 4, rev. Contents: v. 1, The generating plant. v. 2, Distributing system and lamps. N. Y., 1901. 2 v., il., tab., 9 x 6, cl.
- DACREMONT, EDOUARD.** Eclairage électrique. (Bibliothèque du Conducteur de Travaux Publics.) 1899. (See Ha-64, v. 2, p. 88.)
- DURAND, W. F.** Electricity on shipboard. 1901. (See Ka-107, p. 559.)
- GALINE, L., and B. SAINT-PAUL.** Arc voltaïque et incandescence électrique. (Bibliothèque du Conducteur de Travaux Publics.) 1898. (See Ia-26, p. 367.)
- 83 **HARVEY, J. L.** Argument on the price of gas and electricity in the City of Waltham, Dec. 18th, 1900. Waltham, 1901. 64 pp., 9 x 6, pap.
- 61 **HERZOG, JOSEF, and CLARENCE FELDMANN.** Handbuch der elektrischen Beleuchtung. ed. 2, enl. Berlin, 1901. 12 + 619 pp., il., pl., 9 x 6, cl.
- IZQUIERDO, O. D.** La impressa de traccion i alumbrado eléctricos de Santiago. 1901. (See Bd-34.)
- JACKSON, D. C., and J. P.** Arc and incandescent lighting. 1902. (See Ha-68, p. 273.)
- JACKSONVILLE, FLA.—BOARD OF TRUSTEES FOR THE WATER-WORKS and Improvement Bonds.** Annual report; 1901. (See Oj9-2.1.)
- KRATZERT, HEINRICH.** Elektrische Beleuchtung. 1902. (See Ha-77, v. 2, Pt. 2.)
- NEW YORK STATE—BUREAU OF STATISTICS OF LABOR.** Ownership and operation of electric light and power, gas, and water plants. 1897. (See Zj-4, Annual report, 1897, p. 497.)
- LOUDIN, M. A.** Standard polyphase apparatus and systems. 1900. (See Hc-27.)
- SHELDON, SAMUEL, and HOBART MASON.** Direct current machines. 1900. (See Ha-73, v. 1.)
- SOUTH NORWALK, CONN.—BOARD OF ELECTRICAL COMMISSIONERS.** Annual report; 1898-1900. (See Os78-2.1.)
- UHLAND, W. H., ed.** Dynamomaschinen und elektrische Leitungen. 1890. (See Ga-161, v. 16.)
- 44 **UNITED STATES—CORPS OF ENGINEERS.** Specifications, etc., for furnishing and setting lamp posts, globes, etc., for piers of Duluth Ship Canal, Duluth, Minn. Duluth, 1900. 2 v., 14 x 8, pap.
- 45 — Specifications, etc., for furnishing material and apparatus and installing electric light and power plants in various places. various places, 19—. 7 v., 14 x 8, pap. no title-page.
- UNITED STATES—DEPARTMENT OF LABOR.** Water, gas and electric-light plants under private and municipal ownership. 1900. (See Zj-37, Annual report, 1899.)
- WORDINGHAM, C. H.** Central electrical stations; their design, organization and management. 1901. (See Ha-68.)

ELECTRIC—POWER.**Hc**

- ARNOLD, E.** Armature windings of direct current dynamos: Extension and application of a general winding rule; tr. fr. the original German by Francis B. De Gress. 1902. (See Ha-74.)
- 83 **BELL, LOUIS.** Electric power transmission. N. Y., 1901. 632 pp., il., pl., 9 x 6, cl.
- CONSOLIDATED LAKE SUPERIOR CO.** Annual report for the year ending June 30th, 1902. (See Ag-545.)
- DAVIS, C. H., and J. S. GRIGGS, Jr.** Mechanical and electrical equipment of a printing house. 1901. (See Ga-145.)

Hc—(Continued).

- DAWSON, PHILIP. Power station for electric railway. 1901. (See Ba-13, p. 188.)
- DURAND, W. F. Electricity on shipboard. 1901. (See Ka-107, p. 559.)
- 35 GUILBERT, C. F. Die elektricitäts Generatoren auf der pariser Weltausstellung in 1900. Note: Text in French. Paris, 1902. 724 pp., il., pl., 10 tab., 10 x 7, pap.
- HERRICK, A. B. Power stations for street railways. 1901. (See Ba-12, p. 146.)
- 16 HEYLAND, ALEXANDER. An asynchronous induction motor or generator with a power-factor of unity. Lond., 1901. 7 pp., 9 x 5, pap. no title-page.
- 21 —Asynchrone Generatoren für Ein- und Mehrphasenstrom. Berlin, 1902. 17 + 4 pp., il., 11 x 7, pap.
- 17 —Compoundirung von Wechselstromgeneratoren. Berlin, 1902. 6 pp., il., 11 x 7, pap.
- JACKSON, D. C., and J. P. Power stations, the electric railway and other applications of motors. 1902. (See Ha-63, p. 231.)
- KRATZERT, HEINRICH. Kraftübertragung. 1902. (See Ha-77, v. 2, Pt. 3.)
- 34 MATTHEWS, F. J. A. Electrical motor installations: A book for factory owners and other users of steam power. Manchester, 1902. 157 pp., il., 9 x 6, bds.
- MONTPELLIER, J. A. Production de l'énergie électrique: Groupes électrogènes à courant continu. 1900. (See Ha-73, Pt. 2.)
- NEW YORK STATE—BUREAU OF STATISTICS OF LABOR. Ownership and operation of electric light and power, gas and water plants. 1897. (See Zj-4, Annual report, 1897, p. 497.)
- 27 OUDIN, M. A. Standard polyphase apparatus and systems. ed. 2, rev. N. Y., 1900. 5 + 249 pp., il., tab., 8 x 6, cl.
- 32 PARHAM, E. C., and J. C. SHEDD. Shop and road testing of dynamos and motors: A practical manual for the testing floor, the car barn and the road. N. Y., 1901. 12 + 627 pp., il., 8 x 6, cl.
- 19 PARSONS, I. D. Economy of isolated electric plants. no place, 1902. pp. 573-736, 9 x 6, pap.
- 18 PERRINE, F. A. C. Power plants of the Pacific Coast. N. Y., 1902. 22 pp., il., map, 10 x 8, pap.
- RANKINE, W. J. M. Of electro-magnetic engines. 1870. (See Gc-101, p. 539.)
- SHELDON, SAMUEL, and HOBART MASON. Dynamo electric machinery; its construction, design and operation. 1900-02. (See Ha-73.)
- SWAIN, G. F., J. A. HOLMES, and E. W. MYERS. Electric power transmission. 1890. (See Yh-196, Bulletin No. 8, p. 335.)
- 29 THOMPSON, S. P. Polyphase electric currents and alternate-current motors. ed. 2, enl. N. Y., 1900. 8 + 506 pp., il., 8 pl., 9 x 6, cl.
- UHLAND, W. H., ed. Dynamomaschinen und elektrische Leitungen. 1890. (See Ga-161, v. 16.)
- UNITED STATES—CORPS OF ENGINEERS. Specifications, etc., for furnishing material and apparatus and installing electric light and power plants in various places. 19—. (See Hb-45.)
- 15 VENABLE, W. M. Long distance transmission of energy by electricity. no place, 1895. 12 pp., 9 x 6, pap.
- 31 WIENER, A. E. Practical calculation of dynamo-electric machines: A manual for electrical and mechanical engineers and a text-book for students of electrical engineering; continuous current machinery. ed. 2, rev. and enl. N. Y., 1902. 36 + 727 pp., il., 9 x 6, cl.
- WORDINGHAM, C. H. Central electrical stations; their design, organization and management. 1901. (See Ha-68.)

ELECTRIC—TELEGRAPH.

Hd

- DACREMONT, EDOUARD. Télégraphie. (Bibliothèque du Conducteur de Travaux Publics.) 1899. (See Ha-64, v. 2, p. 435.)
- GOOCH, SIR DANIEL, bart. Atlantic cable-laying expeditions of 1865, 1866 and 1869. 1892. (See Zb-82, p. 72.)
- JACKSON, D. C., and J. P. Telegraph, telephone and electric bells. 1902. (See Ha-63, p. 335.)
- LANGDON, W. E. Speaking telegraphs. 1877. (See Ad-275, p. 4.)
- LOUISIANA—STATE BOARD OF APPRAISERS. Report showing the assessments made of property employed in the railway, telegraph, telephone, sleeping car and express business; 1899. (See Ah-94.)
- MCGLASHAN, C. F. McGlashan's train telegraph: Certain method of preventing railroad collisions; telegraph offices upon cars. no place, no date. 8 pp., 9 x 6, b. p. no title-page. Ah-76, p. 327.

Hd—(Continued).

- MEXICO—MINISTERIO DE FOMENTO.** Memoria presentada al Congreso de la Union por el Secretario de Estado y del Despacho de Fomento, Colonizacion, Industria y Comercio de la República Mexicana; 1877. (See Na-119.)
- NORRIE, H. S.** Wireless telegraphy. 1901. (See Ha-1, p. 248.)
- NORTH CAROLINA—BOARD OF RAILROAD COMMISSIONERS.** Annual report; 1894-95. Note: Contains returns of telegraph companies. (See Ah-68.)
- NORTH CAROLINA—CORPORATION COMMISSION.** Annual report; 1899. (See Ah-89.)
- OHIO—COMMISSIONER OF RAILROADS AND TELEGRAPHS.** Annual report; 1898-1901. (See Ah-4.)
- PENNSYLVANIA—SECRETARY OF INTERNAL AFFAIRS.** Annual report; 1890-91, '98-1901. (See Ah-2, Pt. 4.)
- 41 **PRASCH, ADOLF.** Die Telegraphie ohne Draht. Wien, 1902. 15 + 272 pp., il., 8 x 6, cl.
- 39 **SLABY, A.** Die Funkentelegraphy; gemeinverständliche Vorträge. ed. 2. Berlin, 1901. 116 pp., il., pl., 10 x 7, cl.
- UNITED STATES—BUREAU OF STATISTICS (TREASURY DEPT.).** Statistics relating to telegraphs; 1879-79, '88, 1900-01. (See Qc-37.)
- UNITED STATES—OFFICE OF NAVAL INTELLIGENCE.** Wireless telegraphy; 1900-02. (See Ka-71.)
- 40 **WESTERN UNION TELEGRAPH CO.** Retrospect. Note: Brief sketch of the growth of the company during fifty years. N. Y., 1901. 36 pp., il., pl., 10 x 7, cl.

ELECTRIC—TELEPHONE.**He**

- DACREMONT EDOUARD.** Téléphonie, (Bibliothèque du Conducteur de Travaux Publics.) 1899. (See Ha-64, v. 2, p. 482.)
- JACKSON, D. C., and J. P.** Telegraph, telephone and electric bells. 1902. (See Ha-68, p. 385.)
- LOUISIANA—STATE BOARD OF APPRAISERS.** Report showing the assessments made of property employed in the railway, telegraph, sleeping car and express business; 1899. (See Ah-94.)
- NORTH CAROLINA—BOARD OF RAILROAD COMMISSIONERS.** Annual report; 1894-95. Note: Contains returns of telephone companies. (See Ah-68.)
- NORTH CAROLINA—CORPORATION COMMISSION.** Annual report; 1899. (See Ah-89.)
- PENNSYLVANIA—SECRETARY OF INTERNAL AFFAIRS.** Annual report; 1890-91, '98-1901. (See Ah-2, Pt. 4.)
- UNITED STATES—BUREAU OF STATISTICS (TREASURY DEPT.).** Statistics relating to telephones; 1901. (See Qc-37.)

ELECTRIC—VARIOUS USES.**Hf**

- AUCAMUS, EUGENE, and L. GALINE.** Automobiles électriques. (Bibliothèque du Conducteur de Travaux Publics.) 1901. (See Bd-45, p. 419.)
- 15 **BLOUNT, BERTRAM.** Practical electro-chemistry. Westminster, 1901. 11 + 373 pp., il., 9 x 6, cl.
- DELACHANAL, E.** Use of electric apparatus in the working plant of maritime commercial ports. (International Cong. on Navigation, 8th.) 1900. (See Ca-841, p. 5.)
- ERNST, AD.** Motoren und Apparate für elektrischen Betrieb. 1899. (See Ga-155, v. 2.)
- FRIZELL, J. P.** Transmission of power by electric current. 1901. (See Dd-33, p. 429.)
- LANGDON, W. L.** Application of electricity to railway working. Contents: Speaking telegraphs; Block signalling; Miscellaneous appliances. 1877. (See Ad-275.)
- LE CHATELIER, H., and O. BOUDOUARD.** Electrical resistance pyrometer and thermo-electric pyrometer. 1901. (See Yl-79, p. 83.)
- 17 **NORRIE, H. S. (NORMAN H. SCHNEIDER.)** Electric gas lighting; how to install electric gas igniting apparatus including the jump spark and multiple systems, for use in houses, churches, theatres, halls, schools, stores, or any large buildings; also the care and selection of suitable batteries, wiring and repairs. N. Y., 1901. 8 + 101 pp., il., pl., 7 x 5, cl.
- 16 **SENCIER, GASTON, and A. DELASALLE.** Automobiles électriques; avec une préface de Charles Jeantaud. Paris, 1901. 7 + 390 pp., il., 10 x 6, 1/4 mor.

GAS.

GAS—GENERAL.

1a

- BALTIMORE—INSPECTOR AND SEALER OF GAS METERS.** Annual report to the Mayor and City Council: 1875-76. Note: For reports, 1895-97, see Ob5-3.1. Balt., 1875-77. 2 v., 9 x 6, b. p. Ib-20, p. 233.
- BOSTON, MASS.—GAS COMMISSIONERS.** Report relating to the manufacture and supply of illuminating gas for the City of Boston, Oct., 1876. (City doc. No. 91.) no place, 1875. 94 pp., il., tab., 9 x 6, b. p. no title-page. Ib-20, p. 133.
- BROOKLYN, N. Y.—CITY CLERK, comp.** City railroads and gas companies: Resolutions, etc., of the Common Council of the City of Brooklyn and laws of the State of New York granting franchises to railroad and gas companies of said city, and also agreements with and bonds of said companies. no date. (See Bf-52.)
- 23 **BROWN'S DIRECTORY OF AMERICAN GAS COMPANIES; GAS STATISTICS;** 1901. Note: Includes statistics of electrical departments where such departments are operated by the gas company. N. Y., 1901. 1 v., 10 x 7, cl.
- 21 **BUTTERFIELD, W. J. A.** Gas manufacture. The chemistry of: A practical handbook on the production, purification and testing of illuminating gas, and the assay of the bye-products of gas manufacture; for the use of students, chemists and gas engineers. ed. 2, rev. Lond., 1898. 15 + 448 pp., il., 9 x 6, cl.
- 27 **DESCHAMPS, JULES.** Les gazogènes. Paris, 1902. 436 pp., il., 10 x 6, pap.
- 26 **GALINE, L., and B. SAINT-PAUL.** Éclairage. (Bibliothèque du Conducteur de Travaux Publics.) Paris, 1898. 8 + 422 pp., il., 8 x 5, ro.
- 25 **HARTLEY, F. W.** Gas measurement and gas meter testing under the "Sales of Gas Act." ed. 3, rev. and enl. Lond., 1873. 65 pp., il., tab., 8 x 5, cl.
- HARVEY, J. L.** Argument on the price of gas and electricity in the City of Waltham, Dec. 18th, 1900. (See Hb-33.)
- 28 **HOLYOKE WATER POWER CO. vs. CITY OF HOLYOKE.** Testimony. Note: Case relates to the valuation of the water power and the gas and electric light and power plants. Bost., 1899-1902. 19 v., tab., 9 x 6, cl.
- HUGHES, SAMUEL.** On retorts used in gas-making. 1865. (See Ib-2a, p. 91.)
—On the purification of gas. 1865. (See Ib-2a, p. 140.)
- INTERNATIONAL ENGINEERING CONGRESS, GLASGOW, 1901.** Report of the proceedings and abstracts of the papers read; with a preface by Robert Caird, Chairman of the Executive Committee. 1902. (See Aa-109.)
- 24 **LOWELL, MASS.—MAYOR.** Hearing by the Mayor and Board of Aldermen, upon the petition of the Citizens' Gas Co. Note: Relates to supplying the city with gas made by the Citizens' Gas Co. Lowell, 1875. 461 pp., 9 x 6, ¾ ro.
- NEW YORK CITY—BUREAU OF LAMPS AND GAS.** Quarterly report; Oct.-Dec., 1876; July-Dec., '77; Oct.-Dec., '78. no place, 1876-79. 4 v., il., 9 x 6, b. p. no title-page. Ib-20, pp. 325, 433.
- NEW YORK STATE—BUREAU OF STATISTICS OF LABOR.** Ownership and operation of electric light and power, gas and water plants. 1897. (See Zj-4, Annual report, 1897, p. 497.)
- NORRIE, H. S. (NORMAN H. SCHNEIDER.)** Electric gas lighting; how to install electric gas igniting apparatus, including the jump spark and multiple systems, for use in houses, churches, theatres, halls, schools, stores or any large buildings; also the care and selection of suitable batteries, wiring and repairs. 1901. (See Hf-17.)
- UNITED STATES—CONGRESS.** Act regulating gas-works in the District of Columbia. Wash., 1874. 4 pp., 9 x 6, b. p. no title-page. Ib-20, p. 129.
- UNITED STATES—DEPARTMENT OF LABOR.** Water, gas and electric-light plants under private and municipal ownership. 1900. (See Zj-37, Annual report, 1899.)

GAS—COAL.

1b

- 20 **BALTIMORE—INSPECTOR OF ILLUMINATING GAS.** Annual report to the Mayor and City Council: 1870-71. Note: For Annual reports, 1895-97, see Ob5-3.1. Balt., 1871-72. 2 v., 9 x 6, b. p.
- BUHLE, M.** Einrichtungen zur Beförderung und Lagerung von Kohlen, Coke und Reinigermasse für Gasanstaltsbetrieb. 1901. (See Ga-157, p. 101.)

1b—(Continued).

- BUTTERFIELD, W. J. A.** Gas manufacture, The chemistry of: A practical handbook on the production, purification and testing of illuminating gas, and the assay of the bye-products of gas manufacture; for the use of students, chemists and gas engineers. 1898. (See 1a-21.)
- 20 **CINCINNATI, OHIO.—CITY COUNCIL.** Report of the investigation of the Committees on Law and Light, on the price of gas, Nov., 1869. Cin., 1869. 67 pp., 9 x 6, b. p.
- 20 **CINCINNATI, OHIO.—COMMITTEE ON LIGHT AND FINANCE.** Report of the President of the Cincinnati Gas Light & Coke Co., in answer to a resolution by the Committee asking for statistics, references and information regarding the city gas supply. no place, 1879. 37 pp., 9 x 6, b. p. no title-page.
- GALINE, L., and B. SAINT-PAUL.** Distillation de la houille, distribution du gaz, etc. (Bibliothèque du Conducteur de Travaux Publics.) 1898. (See 1a-26, p. 74.)
- 2a **HUGHES, SAMUEL.** Treatise on gas-works and the practice of manufacturing and distributing coal gas; with some account of the most improved methods of distilling coal in iron, brick, and clay retorts and of the various modes adopted for purifying coal gas; including also a chapter on hydrocarbon or water gas and on the rating of gas-works in parochial assessments. ed. 2. Lond., 1865. 15 + 390 pp., ll., 7 x 4, cl.
- 20 **LOUISVILLE, KY.—GENERAL COUNCIL.** Report of the Joint Committee on Gas and Water. Note: Report on the relations of the Louisville Gas Co. to the city in reference to the supply of gas. no place; 1877. pp. 347-426, 9 x 6, b. p. no title-page.
- 20 **LOUISVILLE GAS CO.** Report; 1877. Note: For other reports, see O150-2.1. no place, 1877. 1 v., 9 x 6, b. p.
- LOWELL, MASS.—MAYOR.** Hearing by the Mayor and Board of Aldermen, upon the petition of the Citizens' Gas Co. Note: Relates to supplying the city with gas made by the Citizens' Gas Co. 1875. (See 1a-24.)
- 19 **PHILADELPHIA GAS WORKS.** Annual report of the Trustees; 39th-43d; 1873-77. Phil., 1874-78. 5 v., ll., 9 x 6, b. p.
- 20 **ST. LOUIS GAS-LIGHT CO.** Annual report of the Receiver of the property and estate; 1st-3d; 1877-79. St. Louis, 1877-79. 3 v., ll., tab., 9 x 6, b. p.
- 20 **SAN FRANCISCO, CAL.—GAS INSPECTOR.** Report, 1878. San Fran., 1878. 36 pp., tab., 9 x 6, b. p.
- 20 **UNITED STATES—SENATE COMMITTEE ON PUBLIC BUILDINGS AND Grounds.** Report on the subject of illuminating gas for the public buildings and grounds in the District of Columbia. (43d Cong., 1st Sess. Senate rep. No. 306.) no place, 1874. 37 pp., 9 x 6, pap. no title-page.

GAS—NATURAL.

1c

- ADAMS, G. I.** Oil and gas fields of the western interior and Northern Texas coal measures and of the Upper Cretaceous and Tertiary of the Western Gulf Coast. (U. S. Geological Survey. Bulletin No. 184.) 1901. (See Yh-87.)
- INDIANA—NATURAL GAS SUPERVISOR.** Annual report; 1898, 1900. (See Yh-219.)
- INDIANA—STATE GEOLOGIST.** Natural gas. 1886. (See Yh-11, Annual report, 1886, p. 314.)
- MASON, A. L.** In the Supreme Court of Indiana; the State of Indiana, *ex rel.* Cornelius Corwin, Appellant, *vs.* the Indiana & Ohio Oil, Gas & Mining Co., Appellee; Andrew J. Avery, Appellant, *vs.* the Indiana & Ohio Oil, Gas & Mining Co., Appellee: Brief in behalf of Consumers' Gas Trust Co. Note: Suit brought to prevent Defendant from conveying natural gas outside the State of Indiana. no place, 1889. 32 pp., 9 x 6, b. p. no title-page. Af-301, p. 1.
- OHIO—GEOLOGICAL SURVEY.** Preliminary report upon petroleum and inflammable gas; by Edward Orton. Columbus, 1887. 200 pp., ll., maps, 9 x 6, b. p. Za-38, p. 255.
- UNITED STATES—GEOLOGICAL SURVEY.** Statistics and information relating to the yearly production of natural gas in the United States; 1897-99. (See Yh-40.)

GAS—WATER.

1d

- BUTTERFIELD, W. J. A.** Gas manufacture, The chemistry of: A practical handbook on the production, purification and testing of illuminating gas, and the assay of the bye-products of gas manufacture; for the use of students, chemists and gas engineers. 1898. (See 1a-21.)
- HUGHES, SAMUEL.** On water gas; or, the Hydrocarbon process of gas-making. 1865. (See 1b-2a, p. 304.)
- LUNGE, GEORGE.** Manufacture of water gas, with special reference to European conditions. 1901. (See Ma-12, v. 9, p. 148.)

ARCHITECTURE AND BUILDING.

ARCHITECTURE AND BUILDING—GENERAL.

Ja

- 134 ALDEBERT, E., and EUGENE AUCAMUS. Charpente et couverture. (Bibliothèque du Conducteur de Travaux Publics.) Paris, no date. 8 + 370 pp., 8 x 5, ro.
ALLEGHENY, PA.—BUREAU OF BUILDING INSPECTION. Report; 1898. (See Oa20-2.1.)
AMERICAN INSTITUTE OF ARCHITECTS. Proceedings of the annual convention; 1870, '72-76, '91-92, 1900-01. (See Sa3-33.1.)
ARAJOL, JOAQUIN. Forma racional de los cuchillos de armadura de dos vertientes planas, simplemente apoyados por sus extremos. 1890. (See Ya-27, p. 159.)
- 135 AUCAMUS, EUGENE. Menuiserie, serrurerie, plomberie, peinture et vitrerie. (Bibliothèque du Conducteur de Travaux Publics.) Paris, 1898. 8 + 352 pp., 8 x 5, ro.
BAKER, I. O. Treatise on masonry construction. 1890. (See V-99b.)
BALTIMORE, MD.—INSPECTOR OF BUILDINGS. Annual report to the Mayor and City Council; 1895-97. (See Ob5-3.1.)
BALTIMORE, MD.—SUPERINTENDENT OF PUBLIC BUILDINGS. Annual report to the Mayor and City Council; 1897. (See Ob5-3.1.)
- 3 BENJAMIN, ASHER. The architect; or, Practical house carpenter. Boston, 1843. 119 pp., 64 pl., 11 x 9, sh.
BERG, W. G. Buildings and structures of American railroads: A reference book for railroad managers, superintendents, master mechanics, engineers, architects and students. 1893. (See Ad-276.)
BOSTON, MASS.—PUBLIC BUILDINGS DEPARTMENT. Annual report; 1895, '97. (See Ob35-3.1.)
BOSTON CO-OPERATIVE BUILDING CO. Annual report; 5th; 1875. Bost., 1876. 1 v., 9 x 6, b. p. Ye-293, p. 259.
- 122 BRANNE, J. S. Steel skeleton construction of a tall office building. no place, 1901. 24 pp., 3 pl., tab., 9 x 6, pap.
BUFFALO, N. Y.—SUPERINTENDENT OF BUILDING. Annual report; 1899-1900. (See Ob50-6.1.)
CAMBRIDGE, MASS.—SUPERINTENDENT OF PUBLIC BUILDINGS. Report; 1846, '86-88, '91, '94, '96, '98-99. (See Oc5-3.1.)
CINCINNATI, OHIO—INSPECTOR OF BUILDINGS. Annual report; 1897. (See Oc45-2.1.)
CLEVELAND, OHIO—INSPECTOR OF BUILDINGS. Report; 1889, '98-1900. (See Oc50-3.1.)
DEBAUVE, A. Procédés et matériaux de construction. 1894. (See V-129.)
DEBO, LUDWIG. Lehrbuch der Mauerwerkskonstruktionen. 1901. (See V-130.)
DIAGRAM SHOWING SAFE CRIPPLING STRAINS AND ULTIMATE CRIPPLING strength of wrought iron columns by formulæ of Rockton specifications: Factor of safety = $4 + \frac{5H}{100}$. no date. (See Fa-161.)
EGYPT—PUBLIC WORKS DEPARTMENT. Report upon the administration of the Public Works Department, with reports by the officers in charge of the several branches of the Administration; 1899. (See De-151.)
- 133 FREITAG, J. K. Architectural engineering, with especial reference to high building construction, including many examples of prominent office buildings. ed. 2. N. Y., 1901. 14 + 407 pp., il., pl., 9 x 6, cl.
- 171 FRENCH, A. W., and H. C. IVES. Stereotomy. N. Y., 1902. 7 + 119 pp., il., pl., 9 x 6, cl.
HATT, W. K. Behavior of wrought-iron cylinders under compression. 1898. (See Jc-243.)
- 137 HEBRARD, ALBERT. Architecture. (Bibliothèque du Conducteur de Travaux Publics.) Paris, 1897. 11 + 484 pp., il., 8 x 5, ro.
HEIDENREICH, E. L. Monier constructions. 1900. (See Jc-225.)

Ja—(Continued).

- 147 **HOWE, M. A.** Design of simple roof-trusses in wood and steel; with an introduction to the elements of graphic statics. N. Y., 1902. 8 + 120 pp., il., pl., 9 x 6, cl.
- 1 JOLLY, CESAR, and JOLY, fils. Études pratiques sur la construction des planchers et poutres en fer, avec notice sur les colonnes en fer et en fonte. Paris, 1863. 2 v., il., 104 tab., 9 x 6 (atlas 14 x 28), ¾ ro.
- 129 **LANG, GUSTAV.** Der Schornsteinbau. Hannover, 1896-1901. 3 v., il., pl., 11 x 7, pap.
- 82 **MADRAS—PUBLIC WORKS DEPARTMENT.** Administration report: General, and buildings and roads; 1900-01. Madras, 1900-01. 2 v., 13 x 8, pap.
- MASSACHUSETTS—DISTRICT POLICE.** Report of the Chief, including the Inspection Department and the Detective Department; 1898. Note: Includes the inspection of factories and public buildings. (See Zj-186.)
- MATHESON, EWING.** Works in iron: Bridge and roof structures. 1873. (See Fa-118.)
- 141 **NEW YORK CITY—SUPERINTENDENT OF BUILDINGS.** Annual report; 1865. N. Y., 1866. 1 v., tab., 9 x 6, pap.
- 140 —Semi-annual report; Dec., 1862. N. Y., 1863. 1 v., tab., 9 x 6, ro.
- 139 **NEW YORK STATE—TENEMENT HOUSE COMMITTEE.** Report. Albany, 1896. 649 pp., pl., maps, 9 x 6, cl.
- 17 **NICHOLSON, PETER.** Carpenter's new guide; being a complete book of lines for carpentry and joinery, treating fully on practical geometry, soffits, brick and plaster groins, niches of every description, sky-lights, lines for roofs and domes including some observations and calculations on the strength of timber. ed. 12. Phil., 1867. 127 pp., 84 pl., 11 x 9, sh.
- OMORI, F.** Seismic experiments on the fracturing and overturning of columns. 1900. (See Qb-18, No. 4, p. 69.)
- ONTARIO ASSOCIATION OF ARCHITECTS.** Proceedings; 1901. (See Sa1-11.1.)
- ST. PAUL, MINN.—INSPECTOR OF BUILDINGS.** Annual report; 1886, '88, '98. (See Os85-4.1.)
- 136 **SIMONET, EUGENE.** Maçonneries. (Bibliothèque du Conducteur de Travaux Publics.) Paris, 1897(?) 8 + 2 + 442 pp., il., 8 x 5, ro.
- SPRINGFIELD, MASS.—INSPECTOR OF BUILDINGS.** Report; 1896-97, '99-1900. (See Os80-3.1.)
- STURGIS, RUSSELL, and others.** Dictionary of architecture and building, biographical, historical and descriptive. 1901-02. (See U-96.)
- 4 **TYRRELL, H. G.** Mill building construction. N. Y., 1901. 40 pp., il., tab., 9 x 6, cl.
- UHLAND, W. H., ed.** Dachconstructionen in Holz und Eisen und Eisenconstructions. 1890. (See Ga-161, v. 14.)
- 144 **UNITED STATES—CORPS OF ENGINEERS.** Specifications, etc., for constructing various buildings. various places, 189-. 8 v., 14 x 8, pap. no title-page.
- 99 —Specifications, etc., for iron and steel roofs, stairs, railings, ladders, ammunition lifts and cranes, tramrails, trolleys and hoists for Fort Washington, Md. Wash., 1900. 10 pp., 14 x 9, pap. no title-page.
- 142 —Specifications, etc., for the construction and repair of storehouses, etc., at forts. various places, 1892-1901. 5 v., 14 x 8, pap. no title-page.
- 143 —Specifications, etc., for the construction of lock-keepers' dwellings. various places, 189-. 22 v., 14 x 8, pap. no title-page.
- WOBURN, MASS.—SUPERINTENDENT OF PUBLIC BUILDINGS.** Report; 1895-97. (See Ow38-3.1.)
- WORCESTER, MASS.—SUPERINTENDENT OF PUBLIC BUILDINGS.** Annual report; 1888-89, '95-96. (See Ow40-2.1.)

ARCHITECTURE AND BUILDING—BUILDINGS.**Jb**

- 100 **AMERICAN MUSEUM OF NATURAL HISTORY, NEW YORK CITY.** Proposals for estimates, specifications, etc., for materials and various kinds of work necessary to completely erect and finish the proposed enlargement of the American Museum of Natural History in Manhattan Square. New York City—Department of Public Parks. no place, 1899. 87 pp., 14 x 8, pap.
- 94 **BOSTON POST-OFFICE AND SUB-TREASURY.** Specifications, etc., for wrought and cast-iron work for the U. S. Post-Office and Sub-Treasury, Boston, Mass. U. S.—Supervising Architect. no place, 1872. 48 pp., 14 x 8, pap. no title-page.
- 87 **CANADIAN RAND DRILL CO.'S SHOPS.** New shops of the Canadian Rand Drill Co., Sherbrooke, Que. Sherbrooke, no date. 8 pp., il., 9 x 6, pap.

Jb—(Continued).

- 92 **CHICAGO CUSTOM-HOUSE AND POST-OFFICE.** Specifications, etc., for wrought and cast-iron work for U. S. Custom-House and Post Office at Chicago, Ill. U. S.-Supervising Architect. no place, 1877. 36 + 3 pp., 14 x 8, pap. no title-page.
- 68 **EIFFEL TOWER.** Tour de trois cents mètres. G. Eiffel. Paris, 1900. 2 v., il., por., pl., 22 x 14, ¼ ro.
- 68a — **Travaux scientifiques exécutés à la tour de trois cents mètres de 1899 à 1900.** Paris, 1900. 262 pp., il., por., phot., map, tab., 13 x 10, pap.
- 103 **MELBOURNE UNIVERSITY, ENGINEERING LABORATORY.** New engineering laboratory, University of Melbourne. W. C. Kernot. Melbourne, 1901. pp. 356-361, pl., 9 x 5, pap.
- 101 **METROPOLITAN MUSEUM OF ART, NEW YORK CITY.** Proposals, specifications, etc., for furnishing the materials and labor required in executing the carpenter and joiner work, painting and glazing for the enlargement of the Metropolitan Museum of Art in Central Park. New York City-Department of Public Parks. no place, 1886. 26 pp., 14 x 8, pap.
- 102 — **Proposals, specifications, etc., for materials and various kinds of work required to fully complete the north extension and boiler-house; together with all connections and alterations of renewal, refitting and repair in roof and other portions of the old building of the Metropolitan Museum of Art in the Central Park.** New York City-Department of Public Parks. no place, 1890. 76 pp., 14 x 8, pap.
- 91 **NEW YORK STATE AGRICULTURAL SOCIETY BUILDINGS.** Specifications for permanent State Fair buildings at Elmira, N. Y. Albany, 1872. unpag., 13 x 8, pap.
- 104 **NEW YORK STATE CAPITOL, ALBANY.** Laws relating to the new Capitol. New York-Legislature. Albany, 1874. 15 pp., 9 x 6, pap.
- 93 **ST. LOUIS CUSTOM-HOUSE AND POST-OFFICE.** Specifications, etc., for wrought and cast-iron work for the U. S. Custom-House and Post-Office at St. Louis, Mo. U. S.-Supervising Architect. no place, 1876. 10 + 3 pp., 14 x 8, pap. no title-page.
- 65 **UNITED STATES GOVERNMENT PRINTING OFFICE, WASHINGTON, D. C.** Specifications, etc., for the construction, interior fittings, etc., of the Government Printing Office. U. S.-Corps of Engineers. Wash., 1900. 12 v., 14 x 8, pap. no title-page.
- WEST POINT BATTLE MONUMENT.** History of the project to the dedication of the site. June 15th, 1894; oration of Maj.-Gen. McClellan. N. Y., 1894. 35 pp., 9 x 6, b. p. Za-42, p. 213.
- 90 **WILLETS POINT, N. Y., MUSEUM BUILDING.** Specifications, etc., for construction of front and rear additions to Museum Building, Willets Point, N. Y. U. S.-Corps of Engineers. N. Y., 1902. 10 pp., 14 x 8, pap. no title-page.
- 95 **YORKTOWN, VA., MONUMENT.** Specifications, etc., for building Yorktown Monument. U. S.-Corps of Engineers. N. Y., 1882. 11 pp., 11 x 9, pap. no title-page.

ARCHITECTURE AND BUILDING—MATERIALS.

Jc

- ALLEN, G. L.** Brick-making. 1902. (See Sd6-3.1, v. 24, p. 140.)
- 180 **ANDES, L. E.** Iron corrosion, anti-fouling and anti-corrosive paints; tr. fr. the German by Charles Salter. Lond., 1900. 8 + 275 pp., il., 9 x 6, cl.
- 219 **ARGENTINE REPUBLIC—MINISTRY OF PUBLIC WORKS.** Specifications for the testing of Portland cement to be used on National works. Buenos Aires, 1901. 10 pp., 10 x 7, pap.
- 294 **AUCAMUS, EUGENE.** Bois et métaux. (Bibliothèque du Conducteur de Travaux Publics.) Paris, 1896. 10 + 395 pp., il., 7 x 5, ro.
- BAKER, I. O.** Treatise on masonry construction. 1890. (See V-99b.)
- 257 **BERGER, C., and V. GUILLERME.** La construction en ciment armé; applications générales, théories et systèmes divers; préface de E. Candlot. Paris, 1902. 2 v., il., pl., 10 x 6 (atlas 12 x 10), pap.
- 2a **BURGOYNE, SIR JOHN.** Rudimentary treatise on the blasting and quarrying of stone for building and other purposes. ed. 5. Lond., 1862. 7 + 127 pp., il., 7 x 4, cl.
- 227 **BUTLER, D. B.** Portland cement, its manufacture, testing and use. Lond., 1899. 6 + 360 pp., il., 9 x 6, cl.
- CASTANHEIRA DAS NEVES, J. P.** Exposition Universelle de 1900: Section Portugaise: Notice sur les études de résistance et essais des matériaux de construction en Portugal. 1900. (See Yf-85.)
- 93 **CHRISTOPHE, PAUL.** Le béton armé et ses applications. ed. 2, rev. and enl. Paris, 1902. 19 + 755 pp., il., 10 x 7, cl.

Jc—(Continued).

- 213 COLBY, A. L. Review and text of the American standard specifications for steel, adopted in Aug., 1901, by the American Section of the International Association for Testing Materials. Easton, Pa., 1902. 103 pp., 7 x 5, cl.
- 116 CONGRES INTERNATIONAL DES METHODES D'ESSAI DES MATERIAUX DE Construction. Communications présentées devant le Congrès. Contents: v. 1, Etudes générales. v. 2, Pt. 1, Métaux. v. 2, Pt. 2, Matériaux autres que les métaux. v. 3, Listes des membres: procès-verbaux in extenso. Paris, 1901. 4 v., il., pl., tab., 18 x 9, pap.
- DEBAUVE, A. Matériaux de construction; pierres, chaux et mortiers, maçonneries, bois, métaux. 1894. (See V-129, v. 3.)
- DEBO, LUDWIG. Lehrbuch der Mauerwerkskonstruktionen. 1901. (See V-130.)
- DIAGRAM SHOWING SAFE CRIPPLING STRAINS AND ULTIMATE CRIPPLING strength of wrought iron columns by formulae of Rockton specifications: Factor of safety = $4 + \frac{5H}{100}$. no date. (See Fa-161.)
- 220 ECKEL, E. C. Classification of the crystalline cements. no place, 1902. pp. 146-154, 10 x 7, pap.
- Summaries of the literature of structural materials; 1. 1902. (See Yh-204.)
- Utilization of iron and steel slags. 1902. (See Yi-95.)
- 60a FAIRBAIRN, WILLIAM. On the application of cast and wrought iron to building purposes; to which is added a short treatise on wrought iron bridges, with additions, etc. ed. 3. Lond., 1884. 14 + 314 pp., il., 6 pl., tab., 9 x 6, cl.
- 174 FRANCE—COMMISSION DES METHODES D'ESSAI DES MATERIAUX DE Construction: Session 2. Contents: v. 1, Documents généraux. v. 2, Section A, métaux; rapports particuliers. v. 3, Section B et Sections A et B réunies, matériaux de construction autres que les métaux et produits secondaires des matériaux de construction; rapports particuliers. Paris, 1900. 3 v., il., pl., 18 x 8, pap.
- 221 GOLINELLI, L. How to use Portland cement; tr. by S. B. Newberry. Chic., 1899. 29 pp., 8 x 5, pap.
- HARTMANN. Phénomènes qui accompagnent la déformation permanente des métaux. (Congrès International des Mines et de la Métallurgie, Paris, 1900.) Saint-Etienne, 1900. 79 pp., 9 x 6, pap. Ma-77.21.
- 248 HATT, W. K. Behavior of wrought-iron cylinders under compression. no place, 1898. 8 pp., il., 9 x 6, pap.
- HAZLEHURST, J. N. Comparison of structural materials. 1901. (See Do-1056, p. 28.)
- 225 HEIDENREICH, E. L. Monier constructions. Chic., 1900. 39 pp., il., 8 x 5, pap.
- 246 HUMPHREY, R. L. Inspection and testing of cements. Phil., 1902. 66 pp., il., 9 x 6, pap.
- INTERNATIONAL ASSOCIATION FOR TESTING MATERIALS. Bulletin (American section); 19th-28th; Sept., 1900-May, '02. (See Sa3-86.1.)
- 230 KEEP, W. J. Cast iron: A record of original research. N. Y., 1902. 15 + 225 pp., il., pl., 9 x 6, cl.
- KUMMEL, H. B. Report on Portland cement industry. 1901. (See Yh-22, Annual report, 1900, p. 9.)
- 247 LAIDLEY, T. T. S. Remarks on the proposition recently made to remove the Emery testing machine from Watertown Arsenal to some other locality. Bost., 1882. 24 pp., 9 x 6, pap.
- LEGER, ALFRED. Les travaux publics, les mines et la métallurgie aux temps des Romains; la tradition romaine jusqu'à nos jours. 1875. (See Ca-84.)
- 143 LEWIS, F. H., and others. Cement industry: Descriptions of Portland and natural cement plants in the United States and Europe, with notes on materials and processes in Portland cement manufacture. (Engineering Record Ser.) N. Y., 1900. 295 pp., il., pl., 9 x 6, cl.
- LEWIS, J. V. Notes on building and ornamental stone. 1898. (See Yh-197, Biennial report, 1891-92, p. 57.)
- 245 LOWE, HOUSTON. Hints on painting structural steel and notes on prominent paint materials. ed. 3, rev. Dayton, Ohio, 1902. 37 pp., 8 x 5, pap.
- MAIDEN, J. H. Notes on the commercial timbers of New South Wales. 1895. (See Yb-58.)
- 249 MERRIMAN, MANSFIELD. Resistance of materials under impact: Address before the Section of Mechanical Science, and Engineering, American Association for the Advancement of Science, at the Brooklyn meeting, Aug., 1894. Salem, 1894. 15 pp., 9 x 6, pap.
- Text-book on the mechanics of materials and of beams, columns and shafts. 1900. (See V-109.)

Jc—(Continued).

- 65 **NEW YORK CITY—COMMISSIONERS OF ACCOUNTS.** Comparison between physical tests and chemical analyses of 84 samples of Portland and Rosendale cements, with three tables of results: Report made to the Mayor, May 24th, 1900, and read before the New York Section of the Society of Chemical Industry of England, May 25th, 1900. N. Y., 1900. 25 pp., 3 tab., 9 x 6, pap.
- 65a —Notes on cement testing in addition to those submitted May 24th, 1900; also answering report of the Commissioners to one made Mar. 5th, 1901, by the Engineer of the Department of Highways, Borough of Brooklyn, on violation of specifications for concrete street foundations: Report made to the Mayor, May 20th, 1901. N. Y., 1901. 123 pp., tab., 9 x 6, pap.
- NEW YORK CITY—DEPARTMENT OF PUBLIC PARKS.** Proposals for estimates, specifications, etc., for materials and various kinds of work necessary to completely erect and finish the proposed enlargement of the American Museum of Natural History in Manhattan Square. 1899. (See Jb-100.)
- Proposals, specifications, etc., for furnishing the materials and labor required in executing the carpenter and joiner work, painting and glazing for the enlargement of the Metropolitan Museum of Art in Central Park. 1896. (See Jb-101.)
- 234 **NEW YORK STATE—NEW CAPITOL COMMISSIONERS.** Proposal for foundation stone for the new Capitol at Albany. no place, 1899. 9 pp., 10 x 8, pap. no title-page.
- NEW YORK—STATE ENGINEER AND SURVEYOR.** Report of cement tests. 1900-01. (See Cfh-25.)
- 222 **NEWBERRY, S. B.** Fuel consumption in Portland cement burning. Chic., 1901. 8 pp., 8 x 6, pap.
- 223 —Le Chatelier's formulas and the hydraulic index, by S. B. Newberry; The commercial analysis of Portland cement, by W. B. Newberry. Chic., 1896. 12 pp., 6 x 6, pap.
- 224 **NEWBERRY, S. B., and W. B.** Constitution of hydraulic cements. Chic., 1897. 16 pp., 8 x 6, pap.
- 157 **NORFOLK CREOSOTING CO.** Creosoted timber; its preparation and uses. Phil., 1900. 92 pp., il., tab., 7 x 4, cl.
- POPPELWELL, W. C.** Treatise on the methods and machines used in the mechanical testing of materials of construction. 1901. (See V-114, v. 2.)
- 22 **REID, HENRY.** Practical treatise on concrete, and how to make it; with observations on the uses of cements, limes and mortars. Lond., 1869. 15 + 106 pp., 5 pl., tab., 8 x 5, cl.
- 228 **ROWE, S. M.** Handbook of timber preservation. Chic., 1900. 61 + 8 pp., il., pl., 6 x 4, cf.
- 216 **SCHRENK, HERMANN VON.** Factors which cause the decay of wood. (Contributions from Shaw School of Botany, No. 19.) no place, 1901. 14 pp., 3 pl., 9 x 6, pap.
- SIMONET, EUGENE.** Maçonneries. (Bibliothèque du Conducteur de Travaux Publics.) 1897 (?) (See Ja-186.)
- SMITH, A. W.** Materials of machines. 1902. (See Yi-106.)
- SOCIETY OF CHEMICAL INDUSTRY.** Report of the Sub-Committee on uniformity in analysis of materials for the Portland cement industry. 1902. (See Sd6-27.4.)
- 226 **STERN, L. M.** Treatise on the preservation of metal. Harrisburg, 1901. 21 pp., tab., 8 x 5, pap.
- 112 **STILLMAN, T. B.** Determination of alkalies in Portland and natural cements. no place, 1901. 6 pp., 10 x 7, pap.
- TANABE, S.** Étude sur la résistance à la traction des joints de briques. Note: Relates to earthquakes. 1900. (See Qb-18, No. 3.)
- THACHER, EDWIN.** Bridge and concrete steel construction. 1902. (See Fa-158.)
- THURSTON, R. H.** Materials of engineering. Contents: v. 1, Non-metallic materials. v. 2, Iron and steel. v. 3, Non-ferrous metals and alloys. 1888-94. (See V-89a.)
- TODD, J. E.** Mineral building material, fuels and waters of South Dakota, with production for 1900. 1902. (See Yh-223, No. 3.)
- TYRRELL, H. G.** Mill building construction. 1901. (See Ja-4.)
- 179 **UNITED STATES—CORPS OF ENGINEERS.** Report of Board of Engineer Officers on testing hydraulic cements, with specifications for the several classes used by the Engineer Department. (Professional Papers, No. 28.) Wash., 1901. 38 pp., 9 x 6, cl.
- 236 —Specifications, etc., for furnishing cement, concrete, etc., for various works. various places, 189-. 62 v., 14 x 8, pap. no title-page.
- 253 —Specifications, etc., for furnishing lumber, piles, earth, broken stone, wire nails, structural steel, etc., for various works. various places, 189-. 13 v., 14 x 8, pap. no title-page.

186 ARCHITECTURE AND BUILDING—MATERIALS.

Jc—(Continued).

- Specifications, etc., for the construction, interior fittings, etc., of the Government Printing Office. 1900. (See Jb-65.)
- 244 **UNITED STATES—DEPARTMENT OF AGRICULTURE.** Decay of timber and methods of preventing it; by Hermann von Schrenk. (Bureau of Plant Industry. Bulletin No. 14.) Note: Contains specifications and contracts for the impregnation of timber used on European railroad lines. Wash., 1902. 96 pp., 17 pl., 10 x 7, pap.
- 78 **UNITED STATES—ORDNANCE OFFICE.** Report of the tests of metals and other materials for industrial purposes made with the United States testing machine at Watertown Arsenal, Mass., during the fiscal year ended June 30th, 1899. Wash., 1900. 1 v., il., pl., 9 x 6, pap.
- UNITED STATES—SUPERVISING ARCHITECT.** Specifications, etc., for wrought and cast-iron work for U. S. Custom-House and Post-Office at Chicago, Ill. 1877. (See Jb-92.)
- Specifications, etc., for wrought and cast-iron work for the U. S. Custom-House and Post-Office at St. Louis, Mo. 1876. (See Jb-93.)
- Specifications, etc., for wrought and cast-iron work for the U. S. Post-Office and Sub-Treasury, Boston, Mass. 1872. (See Jb-94.)
- VEREIN DEUTSCHER PORTLAND-CEMENT-FABRIKANTEN and DEUTSCHER Beton-Verein.** Deutsche Portland-Cement und Beton-Industrie auf der Düsseldorf Ausstellung, 1902. (See Sd5-1.4.)
- 26 **WEISS, J. E., and J. BLEIBINHAUS.** Die Hasselmann'sche Imprägnier-Methode: Vorträge gehalten im Polytechnischen Verein in München am 7. März, 1898. Halle a.S., 1898. 10 pp., 12 x 9, pap.
- WILSON BROTHERS & CO.** Report on the official fire and water test of the Vulcanite floor (Bromley patent). 1902. (See Je-6.)
- WINSLOW, B. E.** Winslow tables: Diagrams for calculating the strength of wood, steel and cast-iron beams and columns. 1900. (See V-118.)
- 229 **ZORES, C. F.** Album; profils, assemblages, dispositions, armatures, suspensions & entretoisages des fers Zorès, suivis de leurs diverses applications à la construction des sommiers, baux, poitrails, etc., précédés d'une notice d'expériences comparatives sur la résistance des fers en I et des fers Zorès. Paris, 1893. 16 pp., pl., 19 x 14, cl.
- 135 **ZWERMANN, THEO.** 20th century cement. Cleveland, 1900. 11 pp., 7 x 5, pap.

ARCHITECTURE AND BUILDING—LAWS.

Jd

- BLACK, W. M.** Laws and regulations governing the construction of buildings under the United States Treasury Department. 1895. (See V-128, p. 136.)
- 14 **BOSTON, MASS.—DEPARTMENT OF INSPECTION OF BUILDINGS.** Digest of the statutes and of the ordinances relating to the construction, maintenance and inspection of buildings in the City of Boston, 1892. Bost., 1899. 158 pp., 46 pl., 9 x 6, cl.
- 6 **FRYER, W. J.** New York building law. no place, 1894. 2 pp., 14 x 9, pap.
- NEW YORK—LEGISLATURE.** Tenement-House Law, enacted 1901. (See Ea-18, p. 227.)
- SPECIAL LAWS RELATING TO THE FIRE DEPARTMENT OF NEW YORK City.** Note: Contains building laws of the city. 1884. (See On25-1.16, p. 81.)

ARCHITECTURE AND BUILDING—FIRE PREVENTION.

Je

- 36 **CROSBY, E. U., and H. A. FISKE.** Handbook of fire protection for improved risks. Bost., 1901. 312 pp., il., 7 x 5, mor.
- FAIRBAIRN, WILLIAM.** Construction of fire-proof warehouses. 1864. (See Jc-60a, p. 137.)
- FREITAG, J. K.** Fire protection. 1901. (See Ja-133, p. 12.)
- 5 **PURDY, C. T.** In behalf of terra cotta arches in floor construction. no place, no date. 28 pp., il., 9 x 6, pap.
- 6 **WILSON BROTHERS & CO.** Report on the official fire and water test of the Vulcanite floor (Bromley patent). Phil., 1902. 6 pp., pl., 13 x 8, pap.

MARINE.

MARINE—GENERAL.

Ka

- 37 **AMERICAN EPHEMERIS AND NAUTICAL ALMANAC**; 1873, '84, '99, 1904-05. Wash., 1872-1901. 5 v., 11 x 7, pap.
- 106 **BARNABY, S. W.** Marine propellers. ed. 4. Lond., 1900. 6 + 187 pp., il., pl., 9 x 6, cl.
- BATES, L. W.** International navigation and its interests in the harbours and canals of the world, and means for their improvement. (International Cong. on Navigation, 8th.) Paris, 1900. 54 pp., pl., 11 x 8, pap. Ca-8.48.
- 95 **BRIEF STATEMENT OF FACTS RELATING TO THE CORPS OF CIVIL ENGINEERS** in the Navy, and showing the propriety of appointing a skillful and experienced civil engineer at the head of this staff corps, as Chief of Bureau of Yards and Docks. no place, 1881. 6 pp., 9 x 6, pap. no title-page.
- 38 **CANADA—DEPARTMENT OF MARINE AND FISHERIES.** Annual report, 34th; 1901. Ottawa, 1902. 1 v., 10 x 7, pap.
- CAPTIER, GUSTAVE.** Founding of mariners' institutions; professional instruction; provident and relief societies in France: Report. (International Cong. on Navigation, 8th.) Paris, 1900. 5 pp., 11 x 7, pap. Ca-8.24.
- CAY, W. D.** Lenses for ships' lights: Communication. (International Cong. on Navigation, 8th.) Note: Text in English and French. Paris, 1900. 7 pp., il., 11 x 7, pap. Ca-8.47.
- CHAUDY, F.** Propulseurs hydrauliques. (Bibliothèque du Conducteur de Travaux Publics.) 1896. (See Gb-14, p. 318.)
- 162 **DELPEUCH, MAURICE.** La navigation sous-marine à travers les siècles, d'après de nombreux documents inédits. Paris, 1902 (?) 12 + 448 pp., il., 9 x 6, ½ mor.
- 161 **DIBOS, MAURICE.** Le scaphandre; son emploi. Paris, 1902 (?) 158 pp., il., 8 x 5, pap.
- 107 **DURAND, W. F.** Practical marine engineering for marine engineers and students, with aids for applicants for marine engineers' licenses. N. Y., 1901. 14 + 706 pp., il., pl., 9 x 6, cl.
- FRANZIUS, LUDWIG, and C. SCHILLING.** Die Seeschiffahrt. 1901. (See V-120, v. 3, Pt. 3, p. 83.)
- FRY, HENRY.** History of North Atlantic steam navigation, with some account of early ships and shipowners. 1896. (See Ke-14.)
- INSTITUTE OF MARINE ENGINEERS.** Transactions; 1900-01. (See Sd6-9.1.)
- INSTITUTION OF ENGINEERS AND SHIPBUILDERS IN SCOTLAND.** Transactions; 1900-02. (See Sd6-7.1.)
- INSTITUTIONS MARINIÈRES; ASSOCIATIONS CORPORATIVES & MUTUELLES:** Observations sur le rapport de G. Captier. (International Cong. on Navigation, 8th.) Paris, 1900. 8 pp., 9 x 6, pap. Ca-8.24a.
- INTERNATIONAL ENGINEERING CONGRESS, GLASGOW, 1901.** Report of the proceedings and abstracts of the papers read; with a preface by Robert Caird, Chairman of the Executive Committee. 1902. (See Aa-199.)
- MACINTYRE, ROBERT.** Marine engineering and ship building on the Clyde. 1901. (See Qd-114, p. 98.)
- MERRIMAN, MANSFIELD.** Naval hydromechanics. 1900. (See Da-58, p. 335.)
- NORTHEAST COAST INSTITUTION OF ENGINEERS AND SHIPBUILDERS.** Transactions; 1900-02. (See Sd6-10.1.)
- ROYAL UNITED SERVICE INSTITUTION.** Journal; 1900. (See Sd6-12.1.)
- SCHROEDTER, E.** Ironmaking and shipbuilding industries in Germany. 1902. (See Yi-104.)
- SCHROMM, ANTOINE.** Measures of protection and instruction for ships' crews: Report. (International Cong. on Navigation, 8th.) Paris, 1900. 16 pp., 11 x 7, pap. Ca-8.23.
- SCHWAB, G. H.** Shipping, tariffs and subsidies. N. Y., 1889. pp. 398-468, 20 tab., 9 x 6, b. p. Zj-193, p. 269.

Ka—(Continued).

- 92 **THRUPP, E.C.** Hydraulics of the resistance of ships. Lond., 1902. 12 pp., 8 x 5, pap.
- 94 **UNITED STATES—BUREAU OF EQUIPMENT.** Report of the Chief of the Bureau to the Secretary of the Navy; 1898. Wash., 1898. 1 v., tab., 9 x 6, pap.
- 91 **UNITED STATES—BUREAU OF NAVIGATION (TREASURY DEPT.).** Annual report of the Commissioner of Navigation for the fiscal year ended June 30th, 1895-92, 1900-02. Wash., 1898-1902. 10 v., 9 x 6, pap.
- 7 **UNITED STATES—BUREAU OF STEAM ENGINEERING.** Annual report of the Chief of the Bureau; 1900-02. Wash., 1900-02. 8 v., 9 x 6, pap.
- UNITED STATES—MARINE HOSPITAL SERVICE.** Annual report of the Supervising Surgeon-General; 1895. (See Eg-106.)
- 35 **UNITED STATES—NAVAL OBSERVATORY.** Report of the Superintendent for the year ending June 30th, 1885-88, 1900-01. Note: For reports, 1895 and '96, see Ka-99, Annual reports, 1895 and '96. Wash., 1885-1900. 6 v., 9 x 6, pap.
- 197 **UNITED STATES—NAVY DEPARTMENT.** Annual report of the Assistant Secretary; 1899-1901. Note: Title of report for 1899 reads, Annual report of the operations of the naval militia. Wash., 1899-1901. 3 v., 9 x 6, pap.
- 6 —Register of the commissioned and warrant officers of the Navy of the United States and of the Marine Corps; 1874, '77-July, '80, '83-84, '86, '98, 1900-01. Wash., 1874-1901. 16 v., 9 x 6, pap.
- 99 —Report of the Secretary; 1857, '73-74, '76, '78-84, '87-98, 1900-01. Wash., 1858-1901. 25 v., pl., 9 x 6, pap.
- 82c **UNITED STATES—OFFICE OF NAVAL INTELLIGENCE.** Coaling, docking and repairing facilities of the ports of the world, with analyses of different kinds of coal. ed. 4. Wash., 1900. 418 pp., 9 x 6, pap.
- 71 —Notes on naval progress; 1900-02. (General Information Ser.) Wash., 1900-02. 3 v., il., pl., 9 x 6, pap.
- 9 **UNITED STATES—ORDNANCE OFFICE (WAR DEPT.).** Report on foreign life-saving apparatus; by D. A. Lyle. Wash., 1880. pp. 275-320, 19 pl., 9 x 6, cl.
- UNITED STATES NAVAL INSTITUTE.** Proceedings; 1900-01. (See Sa3-16.1.)

MARINE—YARDS.**Kb****GENERAL.**

- UNITED STATES—OFFICE OF NAVAL INTELLIGENCE.** Coaling, docking, and repairing facilities of the ports of the world, with analyses of different kinds of coal. 1900. (See Ka-82c.)
- KIEL, GERMANY, NAVY YARD.** Kaiserliche Werft. Verein deutscher Ingenieure. 1901. (See Sd5-8.4, p. 47.)
- QUEBEC, QUE.** Report of the City Engineer on the proposed dry dock in the mouth of the River St. Charles. Quebec, 1876. 4 pp., 9 x 6, b. p. Zb-86, p. 53.
- 23 **UNITED STATES.** Annual report of the Chief of the Bureau of Yards and Docks to the Secretary of the Navy; 1900-01. Wash., 1900-01. 2 v., pl., maps, 9 x 6, pap.

MARINE—ORDNANCE.**Kc**

- 23 **ARMSTRONG, G. E.** Torpedoes and torpedo-vessels. ed. 2, rev. Lond., 1901. 16 + 306 pp., il., 7 x 5, cl.
- SNOWDEN, THOMAS.** Notes on ordnance and armor. 1901. (See Ka-71, No. 20, p. 188.)
- UNITED STATES—OFFICE OF NAVAL INTELLIGENCE.** Notes on naval progress; 1900-02. (See Ka-71.)

MARINE—NAVAL SHIPS.**Kd**

- AMERICAN IRON AND STEEL ASSOCIATION.** History of the manufacture of armor plate for the United States Navy. 1899. (See Sa3-84.14.)
- ARMSTRONG, G. E.** Torpedoes and torpedo-vessels. 1901. (See Kc-28.)
- DELPEUCH, MAURICE.** La navigation sous-marine à travers les siècles, d'après de nombreux documents inédits. 1902 (?) (See Ka-162.)
- GONDA, BELA DE.** Construction navales. 1900. (See Ca-81, p. 184.)
- GREAT BRITAIN—LORDS COMMISSIONERS OF THE ADMIRALTY.** Interim report of the Committee appointed by the Lords Commissioners of the Admiralty to consider certain questions respecting modern types of boilers for naval purposes. 1901. (See Gd-33.)

Kd—(Continued).

- HEWITT, A. S.** Shall we have a real navy or a sham navy? Speech in the House of Representatives, June 29th, 1882. Wash., 1882. 81 pp., 9 x 6, b. p. Zj-191, p. 145.
- PHELPS, HARRY.** Notes on ships and torpedo boats. 1901. (See Ka-71, No. 20, p. 9.)
- 36 **UNITED STATES—BOARD OF FORTIFICATIONS AND OTHER DEFENSES.** Appendix to Report of Committee to consider and report upon floating batteries. Wash., 1886. 51 pp., 17 pl., tab., 12 x 9, pap.
- 1 **UNITED STATES—BUREAU OF CONSTRUCTION AND REPAIR.** Annual report of the Chief of the Bureau to the Secretary of the Navy for the fiscal year ending June 30th, 1897. Wash., 1897. 1 v., pl., 9 x 6, pap.
- UNITED STATES—OFFICE OF NAVAL INTELLIGENCE.** Notes on naval progress; 1900-02. (See Ka-71.)
- Use of electricity on naval ships; 1900-02. (See Ka-71.)
- VEREIN DEUTSCHER INGENIEURE.** Bau des Panzer Kreuzer *Fürst Bismarck*. 1901. (See Sd5-3.4, p. 87.)
- 80 **WATKINS, J. E.** Log of the *Savannah*. Note: Description of the first steamboat which made the voyage across the Atlantic. Wash., 1892. pp. 611-639, por., pl., facsim., 10 x 6, pap.

MARINE—MERCHANT SHIPS.

Ke

- BATES, W. W.** An American marine; its utility, creation and maintenance. 1895. (See Zd-88.)
- BELL, CLARK.** China mail service: First argument of the Attorney and Counsel for the Pacific Mail Steamship Co., before the Judiciary Committee of the Senate, Feb. 17th, 1875. Note: Argument against the withdrawal of the subsidy granted to the P. M. S. Co. for carrying the mails. Wash., 1875. 98 pp., tab., 9 x 6, b. p. no title-page. Aa-81, p. 301.
- China mail service: Second argument of the Attorney and Counsel for the Pacific Mail Steamship Co., before the Judiciary Committee of the Senate, Feb. 17th, 1875. Note: Argument against the withdrawal of the subsidy granted to the P. M. S. Co. for carrying the mails. Wash., 1875. 18 pp., 9 x 6, b. p. Aa-81, p. 397.
- BILL TO AID IN THE CONSTRUCTION OF TWENTY OR MORE FIRST-CLASS iron steamships, together with ship yards, machine shops, rolling mills, wharves, docks, etc., for the building and maintenance of the same, and to secure to the Government the use of the same for postal, naval and other purposes.** no place, no date. 14 pp., 9 x 6, b. p. no title-page. Za-38, p. 1.
- FACTS PRESENTED TO CONGRESS IN SUPPORT OF THE BILL FOR THE incorporation and subsidizing of the American Mail & Ocean Transportation Co.** no place, no date. 7 pp., 9 x 6, b. p. no title-page. Za-38, p. 15.
- 14 **FRY, HENRY.** History of North Atlantic steam navigation, with some account of early ships and shipowners. N. Y., 1896. 14 + 324 pp., il., map, 8 x 6, cl.
- HOW TO SHORTEN THE DISTANCE BETWEEN EUROPE AND AMERICA,** via Whitehaven, Nova Scotia, thereby insuring greater speed and safety in the transmission of passengers, mails and freight. N. Y., 1877. 11 pp., 9 x 6, b. p. Af-304, p. 387.
- MORGAN'S LOUISIANA & TEXAS R. R. & STEAMSHIP CO.** Annual report; 1885. (See Ag-453.)
- PACIFIC COAST CO.** Report to the Stockholders for the year ending June 30th, 1901-02. (See Ag-528.)
- VETILLART, H.** Transformation du matériel et des procédés de la marine marchande: Rapport. (International Cong. on Navigation, 8th.) Paris, 1900. 46 pp., 11 x 7, pap. Ca-8.40.
- WELLS, D. A.** Decay of our ocean mercantile marine; its cause and cure: Will subsidizing ships bring back our foreign commerce, and afford markets for the surplus products of our manufacturing industries? N. Y., 1880. 48 pp., 8 x 5, b. p. Za-40, p. 281.

MARINE—STEAMBOATS.

Kf

- CUVILLIER, T.** Législation & contrôle des appareils à vapeur. (Bibliothèque du Conducteur de Travaux Publics.) 1897. (See Gc-108.)
- GONDA, BELA DE.** État actuel de la navigation hongroise. 1900. (See Ca-81, p. 116.)
- GÖRZ, M., and M. BUCHHEISTER.** Das Eisbrechwesen im deutschen Reich. 1900. (See Cb-76.)

Kf—(Continued).

- 30 **NEW LONDON STEAMBOAT CO.** Receipts and expenditures for the year ending May 31st, 1890-92. no place, 1890-92. 3 v., 8 x 5, pap.
- NEWPORT & WICKFORD R. R. & STEAMBOAT CO.** Report of the Board of Directors to the Stockholders; 1882. (See Ag-456.)
- NORTH CAROLINA—BOARD OF RAILROAD COMMISSIONERS.** Annual report; 1894-95. Note: Contains returns of steamboat companies. (See Ah-68.)
- NORTH CAROLINA—CORPORATION COMMISSION.** Annual report; 1899. (See Ah-89.)
- OREGON R. R. & NAVIGATION CO.** Annual report for the fiscal year ended June 30th, 1897-99. (See Ag-173a.)
- OREGON RY. & NAVIGATION CO.** Annual report to the Stockholders for the year ending June 30th, 1881, '84-88. (See Ag-173.)
- 36 **UNITED STATES—CORPS OF ENGINEERS.** Specifications, etc., for the construction and hire of tugs. various places, 1861-97. 7 v., 14 x 8, pap. no title-page.
- 34 — Specifications, etc., for the construction and repair of steam tenders. various places, 1886-93. 3 v., 14 x 8, pap. no title-page.
- 35 — Specifications, etc., for the construction, purchase, or hire of tow-boats. various places, 189-. 14 v., 14 x 8, pap. no title-page.
- 31 — Specifications, etc., for the construction, repair and hire of steam launches, and steam lighters. various places, 1886-1901. 4 v., 14 x 8, pap. no title-page.
- 33 — Specifications, etc., for the construction, repair and hire of steam vessels and steam propellers. various places, 1888-1901. 6 v., 14 x 8, pap. no title-page.

MILITARY.

MILITARY—GENERAL.

La

- CULLUM, G. W.** Biographical register of the officers and graduates of the U. S. Military Academy at West Point, N. Y., from its establishment, in 1802, to 1890, with the early history of the United States Military Academy. 1891. (See U-98.)
- Same; Supplement; 1890-1900; ed. by Edward S. Holden. 1901. (See U-98.)
- MILITARY SERVICE INSTITUTION OF THE UNITED STATES.** Journal (bi-monthly); July, 1900-May, '01. (See Sa3-13.1.)
- 7 **PATTEN, GEORGE.** Patten's army manual; containing instructions for officers in the preparation of rolls, returns and accounts required of regimental and company commanders, and pertaining to the Subsistence and Quartermaster's Departments, etc., etc. N. Y., 1861. 4 + 268 pp., tab., 8 x 5, ro.
- 21 **PHILIPPINE ISLANDS—MILITARY GOVERNOR.** Report on military operations and civil affairs in the Philippine Islands; 1899. Wash., 1899. 1 v., 9 x 6, pap.
- 33 **PHILLIPS, ENRIQUE.** Operaciones del Destacamento del Oeste, iniciado el 6 y terminado el 19 de Abril de 1899. Valparaiso, 1899. 180 pp., pl., maps, 9 x 7, 1/4 mor.
- 26 **RECUEIL DES TRAVAUX TECHNIQUES DES OFFICIERS DU GENIE DE l'armée belge;** v. 3. Bruxelles, 1902. 1 v., pl., 10 x 6, pap.
- 34 **ROUX, ONESIME.** Le génie—ses travaux spéciaux, ses services annexes. (Bibliothèque du Conducteur de Travaux Publics.) Paris, 1897. 8 + 508 pp., ll., pl., 8 x 5, ro.
- ROYAL UNITED SERVICE INSTITUTION.** Journal; 1900. (See Sd6-12.1.)
- UNITED STATES—CHICKAMAUGA AND CHATTANOOGA NATIONAL PARK Commission.** Atlas of the battlefields of Chickamauga, Chattanooga and vicinity. 1901. (See Qf-278a.)
- 32 **UNITED STATES—WAR DEPARTMENT.** Annual report of the Secretary of War; 1863-64, Pt. 2; '66, '68-71, Pt. 1; '73-81, '83-85, '87-1901. Wash., 1863-1901. 29 v., pl., maps, tab., 9 x 6, pap., ro., cl.
- 9 —Official army register; 1868-71, '73-74, '84, '86, '90-1901. Wash., 1868-1901. 10 v., 9 x 6, pap., 1/4 ro.
- 35 **VENABLE, W. M.** Second regiment of United States Volunteer Engineers: A history. Cin., 1899. 219 pp., ll., maps, tab., 9 x 6, cl.

MILITARY—FORTIFICATIONS.

Lc

- 52 **FIEBEGER, G. J.** Text-book on field fortification. N. Y., 1901. 12 + 166 pp., 27 pl., 9 x 6, cl.
- RECUEIL DES TRAVAUX TECHNIQUES DES OFFICIERS DU GENIE DE l'armée belge;** v. 3. 1902. (See La-26.)
- ROUX, ONESIME.** Le génie—ses travaux spéciaux, ses services annexes. (Bibliothèque du Conducteur de Travaux Publics.) 1897. (See La-34.)
- 55 **UNITED STATES—CORPS OF ENGINEERS.** Specifications, etc., for ammunition hoist to be installed at Fort Monroe, Va. Norfolk, 1902. 8 pp., 14 x 8, pap. no title-page.
- 76 —Specifications, etc., for constructing a pile and timber foundation for a mining casemate, cable-gallery and passageway. Phil., 1891. 5 pp., 14 x 8, pap. no title-page.
- 67 —Specifications, etc., for furnishing material and constructing gun emplacements. various places, 189-. 15 v., 14 x 8, pap. no title-page.
- 68 —Specifications, etc., for furnishing sand, rock, cement, etc., for batteries. various places, 1875-97. 4 v., 14 x 8, pap. no title-page.
- 72 —Specifications, etc., for manufacturing and erecting gun-lift mechanism at Sandy Hook. N. Y., 1892. 6 pp., 14 x 9, pap. no title-page.

Lc—(Continued).

- 69 —Specifications, etc., for repairs to forts. various places, 1884-88. 3 v., 14 x 8, pap. no title-page.
- 71 —Specifications, etc., for the construction of gun and mortar batteries. various places, 189-. 12 v., 14 x 8, pap. no title-page.
- 70 —Specifications, etc., for the erection of observation towers at various forts. various places, 1900-01. 2 v., 14 x 7, pap. no title-page.

MILITARY—ORDNANCE.**Ld**

- HISCOX, G. D.** Compressed air in warfare. 1901. (See Ge-22, p. 698.)
- 61 **MAXIM, HUDSON.** Maximite. no place, 1901. pp. 337-351, il., 9 x 6, pap.
- MERRIMAN, MANSFIELD.** Stresses in guns. 1900. (See V-109, p. 310.)
- 30 **UNITED STATES—CORPS OF ENGINEERS.** Specifications, etc., for furnishing material and building range towers at various forts. various places, 1900-02. 2 v., 14 x 8, pap. no title-page.
- 85 —Specifications, etc., for material and work on gun platforms. various places, 1885. 5 v., 14 x 8, pap. no title-page.
- 84 —Specifications, etc., for the construction of buildings for torpedo storage. various places, 1890-1901. 3 v., 14 x 8, pap. no title-page.
- 81 **UNITED STATES—ORDNANCE OFFICE.** Annual report of the Chief of Ordnance to the Secretary of War for the fiscal year ending June 30th, 1876, 1900-01. Note: For report, 1866, see La-32, Annual report, 1866, p. 653. For report, 1868, see La-32, Annual report, 1868, Pt. 1, p. 990. For report, 1869, see La-32, Annual report, 1869, Pt. 1, p. 489. For report, 1870, see La-32, Annual report, 1870, Pt. 1, p. 287. For report, 1871, see La-32, Annual report, 1871, p. 249. Wash., 1876-1900. 3 v., il., pl., tab., 9 x 6, cl.
- Tests of rifles. 1899. (See Jc-78.)

MINING.

MINING—GENERAL.

Ma

- AMERICAN INSTITUTE OF MINING ENGINEERS. Transactions; 1899. (See Sa3-3.1.)
- 76 ANDERSON, J. W. Prospector's handbook: A guide for the prospector and traveler in search of metal-bearing or other valuable minerals. Lond., 1902. 12+176 pp., il., 7 x 5, cl.
- AUSTRALASIAN INSTITUTE OF MINING ENGINEERS. Transactions; 1901. (See 8g-5.1.)
- BAILEY, G. E. Saline deposits of California. 1902. (See Ma-15, No. 24.)
- 65 BRITISH COLUMBIA—BUREAU OF PROVINCIAL INFORMATION. General review of mining in British Columbia; Bulletin No. 1. Victoria, 1900. 1 v., 9 x 6, pap.
- 74 BRITISH COLUMBIA—MINISTER OF MINES. Annual report, being an account of mining operations for gold, coal, etc., in the Province of British Columbia; 1900. Victoria, 1901. 1 v., il., map, 10 x 7, pap.
- 61 BROUGH, B. H. Cantor lectures on the nature and yield of metalliferous deposits Lond., 1900. 54 pp., il., tab., 10 x 6, pap.
- BURGOYNE, SIR JOHN. Rudimentary treatise on the blasting and quarrying of stone for building and other purposes. 1862. (See Jc-2a.)
- 15 CALIFORNIA—STATE MINING BUREAU. Bulletin; Nos. 1, 4, 16, 18, 21-26. Sacramento, 1888-1901. 10 v., il., 9 x 6, pap.
 - 1, Description of the desiccated human remains in the California State Mining Bureau; by Winslow Anderson.
 - 4, Catalogue of Californian fossils; Pts. 2-5; by J. G. Cooper.
 - 16, Genesis of petroleum and asphaltum in California; by A. S. Cooper.
 - 18, Mother lode region of California; by W. H. Storms.
 - 21, Table showing by counties the mineral productions of California for the year 1900; comp. by C. G. Yale.
 - 22, Table showing the mineral production of California for fourteen years, 1887-1900.
 - 23, Copper resources of California; by L. E. Aubury.
 - 24, Saline deposits of California; by G. E. Bailey.
 - 25, Table showing by counties the mineral productions of California for the year 1901; comp. by C. G. Yale.
 - 26, Table showing the mineral production of California for fifteen years, 1887-1901.
- CANADIAN MINING INSTITUTE. Journal; 1901-02. (See Sa1-7.1.)
- COAL AND METAL MINERS' POCKETBOOK OF PRINCIPLES, RULES, FORMULAS, and tables; specially compiled and prepared for the convenient use of mine officials, mining engineers, and students preparing themselves for certificates of competency as mine inspectors or mine foremen. 1902. (See V-136.)
- 71 COLOMER, FELIX. Exploitation des mines. (Bibliothèque du Conducteur de Travaux Publics.) Paris, 1899. 8+344 pp., il., 8 x 5, ro.
- 77 CONGRES INTERNATIONAL DES MINES ET DE LA METALLURGIE, PARIS, 1900. Papers, etc. Saint-Etienne, 1900. 22 v., il., pl., maps, 9 x 6, pap.
- 19a COPP, H. N. American mining code. ed. 14. Wash., 1902. 4+183 pp., 9 x 6, pap.
- 72 CUVILLIER, T. Législation minière et controle des mines. (Bibliothèque du Conducteur de Travaux Publics.) Paris, 1902. 12+788 pp., 8 x 5, ro.
- 77.16 DELAFOND. Emploi des explosifs "de sureté" dans les mines de combustibles françaises. (Congrès International des Mines et de la Métallurgie, Paris, 1900.) Saint-Etienne, 1900. 18 pp., 9 x 6, pap.
- DODD, GEORGE. Dictionary of manufactures, mining, machinery and the industrial arts. 1869. (See U-86.)
- 63 ECKEL, E. C. Quarry industry in Southeastern New York. Albany, 1902. pp. 148-176, pl., map, 9 x 6, pap.

Ma—(Continued).

- HALBAUM, H. W. G.** New diagram of the work of mine-ventilation. 1902. (See Sd6-3.1, v. 24, p. 206.)
- HAYES, C. W.** Arkansas bauxite deposits. (U. S. Geological Survey.) 1901. (See Yh-40, Annual report, 1899-1900, Pt. 3, p. 485.)
- HEWITT, A. S.** Century of mining and metallurgy in the United States: Centennial address. Phil., 1876. 32 pp., tab., 9 x 6, b. p. Za-39, p. 331.
- HISCOX, G. D.** Compressed air in mining and quarrying. 1901. (See Ge-22, p. 415.)
- HOSKOLD, H. D.** New civil and mining engineers' transit-theodolite, for connecting underground workings to the surface, *vice versa*, and for general surveying. 1902. (See Sd6-3.1, v. 24, p. 258.)
- 77.20 **HRABAK, JOSEPH.** Conditions d'exploitation à grande profondeur. (Congrès International des Mines et de la Métallurgie, Paris, 1900.) Saint-Étienne, 1900. 58 pp., 9 x 6, pap.
- INDIANA—DIRECTOR OF MINES.** Report to the State Geologist; 1898, 1900. (See Yh-219.)
- INTERNATIONAL ENGINEERING CONGRESS, GLASGOW, 1901.** Report of the proceedings and abstracts of the papers read; with a preface by Robert Caird, Chairman of the Executive Committee. 1902. (See Aa-109.)
- 77.2 **KOTSOWSKY, N.** La composition de l'air des mines dans le bassin du Donetz. (Congrès International des Mines et de la Métallurgie, Paris, 1900.) Saint-Étienne, 1900. 23 pp., 9 x 6, pap.
- KRATZERT, HEINRICH.** Elektrotechnik im Bergbau. 1902. (See Ha-77, v. 2, Pt. 5, p. 1.)
- 69 **LABASTIE, FELIPE.** Estudio sobre el mineral de Caracoles. Santiago, 1901. 10 + 464 pp., tab., 11 x 7, pap.
- LAKE SUPERIOR MINING INSTITUTE.** Proceedings of the annual meeting; 1898. (See Sa3-181.2.)
- 77.14 **LE CHATELIER, H.** Rapport sur l'établissement des dynamitières. (Congrès International des Mines et de la Métallurgie, Paris, 1900.) Saint-Étienne, 1900. 43 pp., il., 9 x 6, pap.
- LEGER, ALFRED.** Les travaux publics, les mines et la métallurgie aux temps des Romains; la tradition romaine jusqu'à nos jours. 1875. (See Ca-84.)
- 77.7 **LIBERT, JOSEPH.** Emploi de l'électricité dans les mines. (Congrès International des Mines et de la Métallurgie, Paris, 1900.) Saint-Étienne, 1900. 130 pp., 9 x 6, pap.
- 12 **MINERAL INDUSTRY;** its statistics, technology and trade in the United States and other countries to the end of 1893-1901 (v. 2-10); ed. by Richard P. Rothwell and Joseph Struthers. N. Y., 1894-1902. 9 v., il., tab., 10 x 6, cl.
- MINING INSTITUTE OF SCOTLAND.** Transactions; 1900-01. (See Sd6-3.1.)
- NEW JERSEY—GEOLOGICAL SURVEY.** Annual report of the State Geologist; 1896, '98-1901. (See Yh-22.)
- 70 **NEW ZEALAND—MINES DEPARTMENT.** Papers and reports relating to minerals and mining, comprising statement by the Minister of Mines, report on the gold-fields, report on coal-mines, geological explorations. Wellington, 1901 1 v., il., pl., tab., 13 x 8, 1/2 cl.
- NORTH OF ENGLAND INSTITUTE OF MINING AND MECHANICAL ENGINEERS.** Mechanical ventilators: Report of the Committee of the North of England Institute of Mining and Mechanical Engineers, and the Midland Institute of Mining, Civil and Mechanical Engineers; by M. Walton Brown. 1900. (See Sd6-8.6.)
- Subject-matter index of mining, mechanical and metallurgical literature; 1900. (See Sd6-8.7.)
- Transactions; 1852-54, '58-68, '99-1900. (See Sd6-3.1.)
- NUGENT, P. C.** Mine surveying. 1902. (See R-91, p. 324.)
- O'HARRA, C. C.** Mineral resources of South Dakota, including mineral wealth of the Black Hills. 1902. (See Yh-223, No. 3.)
- 18 **OHIO—CHIEF INSPECTOR OF MINES.** Annual report to the Governor of the State; 22d; 1896. Norwalk, Ohio, 1897. 1 v., 9 x 6, pap.
- 73 **ONTARIO—BUREAU OF MINES.** Report; 7th, Pt. 8; 10th; 1898, 1901. Toronto, 1898-1901. 2 v., il., pl., map, 10 x 6, pap.
- OVERMAN, FREDERICK.** Practical mineralogy, assaying and mining; with a description of the useful minerals, and instructions for assaying and mining according to the simplest methods. 1853. (See Yh-190.)
- 64 **PARSONS, A. L.** Recent developments in the gypsum industry in New York State. no place, 1901. pp. 177-183, 9 x 6, pap.
- 77.17 **PELLATI, N.** Dispositions capables d'entendre et de faciliter l'usage du fil héli-coïdal pour la taille du marbre en roche. (Congrès International des Mines et de la Métallurgie, Paris, 1900.) Saint-Étienne, 1900. 10 pp., 9 x 6, pap.

Ma—(Continued).

- 77.22 **PETIT, P.** Étude sur l'aérage des travaux préparatoires dans les mines à Gri-sou. (Congrès International des Mines et de la Métallurgie, Paris, 1900.) Saint-Étienne, 1900. 6 + 465 pp., 13 pl., 9 x 6, pap.
- 77.19 **POUSSIQUÉ, LEON.** Conditions d'exploitation à grande profondeur. (Congrès International des Mines et de la Métallurgie, Paris, 1900.) Saint-Étienne, 1900. 183 pp., 5 pl., 9 x 6, pap.
- PRATT, J. H.** Mining industry in North Carolina during 1900. (See Yh-185, Economic papers, No. 4.)
- Occurrence and distribution of corundum in the United States. (U. S. Geological Survey. Bulletin No. 180.) 1901. (See Yh-87.)
- PRODUCTION AND CONSUMPTION OF QUICKSILVER, PLATINUM, ALUMINUM and nickel in the United States; 1898-1901.** (See Ma-12.)
- SCOTT, D. D., and others.** Evolution of mine-surveying instruments, comprising the original paper of Mr. Scott on the subject, together with the discussion thereof, and independent contributions on the subject. Note: Reprinted from Vols. xxviii-xxxii of the Transactions of the American Institute of Mining Engineers. 1902. (See R-92.)
- SOCIEDAD NACIONAL DE MINERIA.** Padron jeneral de minas de la República de Chile, correspondiente a 1899. (See Sb4-3.1.)
- 75 **SOUTH AFRICAN REPUBLIC CHAMBER OF MINES.** Annual report; 11th; 1899. Cape Town, 1900. 1 v., tab., 10 x 7, cl.
- 77.13 **STASSART, SIMON.** Les conditions d'exploitation à grande profondeur en Belgique. (Congrès International des Mines et de la Métallurgie, Paris, 1900.) Saint-Étienne, 1900. 107 pp., pl., 9 x 6, pap.
- 77.1 **SZYMANOWSKY, MARTIN.** Krivoi-Rog et l'état actuel de l'industrie métallurgie dans le midi de la Russie. (Congrès International des Mines et de la Métallurgie, Paris, 1900.) Saint-Étienne, 1900. 77 pp., il., maps, 9 x 6, pap.
- TEXAS, UNIVERSITY OF.** Terlingua quicksilver deposits, Brewster County, Texas. 1902. (See Yh-104, No. 16.)
- THOMPSON, G. R.** Connection of underground and surface surveys. 1902. (See Sd6-3.1, v. 24, p. 241.)
- UNITED STATES—BUREAU OF STATISTICS (TREASURY DEPT.).** Statistics relating to mining; 1878-79, '88, 1900-01. (See Qc-37.)
- UNITED STATES—CENSUS, 9th, 1870.** Statistics of the wealth and industry of the United States, embracing the tables of wealth, taxation, and public indebtedness, of agriculture, manufactures, mining and the fisheries; comp. by Francis A. Walker. 1872. (See Qc-9.5.)
- UNITED STATES—GEOLOGICAL SURVEY.** Mineral resources of the United States; 1897-99. (See Yh-40.)
- Statistics and information relating to the yearly production of aluminum in the United States; 1897-99. (See Yh-40.)
- 62 **VATTIER, CHARLES.** Notes on mining and metallurgy in Chile. Buffalo, 1901. 32 pp., 9 x 6, pap.
- VICTORIA—DEPARTMENT OF MINES.** Monthly progress report of the Geological Survey; Apr., 1899-Mar., 1900. (See Yh-218.)
- 34 **VICTORIA—MINES AND WATER SUPPLY DEPARTMENT.** Annual report of the Secretary to the Minister of Mines; 1899. Melbourne, 1899. 1 v., il., pl., maps, 13 x 8, pap.
- 60 **VICTORIA CHAMBER OF MINES.** Annual report by the Council; together with address by the President, appendices, list of members and office-bearers, memorandum, and articles of association, etc.; 2d-3d; for the year ending June 30th, 1900-01. Melbourne, 1900-01. 2 v., 8 x 5, pap.
- WALNER, ROBERT.** Die Bewetterung der Bergwerke. 1901-02. (See Mb-57.)
- 77.10 **WENDELIN, WOLFGANG.** L'électricité dans l'industrie minière. (Congrès International des Mines et de la Métallurgie, Paris, 1900.) Saint-Étienne, 1900. 49 pp. 9 x 6, pap.

MINING—COAL.

Mb

- BACHELLERY, A.** Les haveuses mécaniques dans les houillères des États-Unis. (Congrès International des Mines et de la Métallurgie, Paris, 1900.) Saint-Étienne, 1900. 40 pp., il., 9 x 6, pap. Ma-77.18.
- BRITISH COLUMBIA—MINISTER OF MINES.** Annual report; being an account of mining operations for gold, coal, etc., in the Province of British Columbia; 1900. (See Ma-74.)
- 44 **BROUGH, B. H.** Scarcity of coal. Lond., no date. 8 pp., 9 x 5, pap.
- CADELL, H. M.** Carboniferous lime-stone coal fields of West Lothian. 1902. (See Sd6-3.1, v. 24, p. 94.)
- CARRINGTON, H. B.** Manufacturing resources of Indiana: Bituminous coals; Tract No. 1. Indianapolis, 1872. 16 pp., 9 x 6, b. p. Af-297, p. 59.

Mb—(Continued).

- COAL AND METAL MINERS' POCKETBOOK OF PRINCIPLES, RULES, formulas, and tables;** specially compiled and prepared for the convenient use of mine officials, mining engineers, and students preparing themselves for certificates of competency as mine inspectors or mine foremen. 1902. (See V-188.)
- DELAWARE & HUDSON CO.** Annual report; 1825, '27, '31-32, '34-1900. (See Ag-518.)
- 22 **GREAT BRITAIN—INSPECTOR OF COAL MINES.** Reports to Her Majesty's Secretary of State; 1855. Lond., 1856. 1 v., 18 x 8, pap.
- 45 **HAYES, JOHN.** Explosions in coal-mines. Wellington, N. Z., 1896. 25 pp., 8 x 5, pap.
- HUNTINGDON & BROAD TOP MOUNTAIN R. R. & COAL CO.** Annual report of the President and Directors to the Stockholders; 1890, 1901. (See Ag-445.)
- 2 **ILLINOIS—STATE BUREAU OF LABOR STATISTICS.** Annual report; 4th, 12th-14th, 16th, 18th, 20th; for the year ended July 1st, 1885, '93-95, '97, '99, 1901. Note: Contains the annual reports of the State Inspectors of Mines. Springfield, 1885-1901. 7 v., pl., 9 x 6, pap., cl.
- Same; 1889. Springfield, 1890. 1 v., 9 x 6, b. p. Ad-271, p. 365.
- KIRCHHOFF, C.** Coal and coke supply of Germany. 1900. (See Yi-29, p. 14.)
- LEHIGH & WILKES-BARRE COAL CO.** Annual report; 1901. (See Ag-213.)
- 55 **LEIFCHILD, J. R.** On coal at home and abroad with relation to consumption, cost, demand, and supply, and other inquiries of present interest; being three articles contributed to the *Edinburgh Review*. Lond., 1878. 6 + 141 pp., 9 x 6, cl.
- MINERAL INDUSTRY;** its statistics, technology, and trade in the United States and other countries; 1898-1901. (See Ma-12.)
- NEW MEXICO RY. & COAL CO.** Annual report for the period ending June 30th, 1901. (See Ag-502.)
- NEW ZEALAND—MINES DEPARTMENT.** Papers and reports relating to minerals and mining, comprising statement by the Minister of Mines, report on the gold-fields, report on coal-mines, geological explorations. 1901. (See Ma-70.)
- NORTH OF ENGLAND INSTITUTE OF MINING AND MECHANICAL ENGINEERS.** Mechanical ventilators: Report of the Committee of the North of England Institute of Mining and Mechanical Engineers, and the Midland Institute of Mining, Civil and Mechanical Engineers; by M. Walton Brown. 1900. (See Sd6-8.6.)
- OHIO—CHIEF INSPECTOR OF MINES.** Annual report to the Governor of the State; 1896. (See Ma-18.)
- 54 **OWEN, RICHARD.** Report of a geological examination made on the lands of the Wabash Petroleum & Coal Mining Co., in Warren, Fountain and Parke Counties, Ind. Indianapolis, 1866. 30 pp., 9 x 6, b. p.
- PENNSYLVANIA—BUREAU OF MINES.** Report; 1900. (See Ah-2, Pt. 5.)
- PETIT, P.** Étude sur l'aérage des travaux préparatoires dans les mines à Grisou. (Congrès International des Mines et de la Métallurgie, Paris, 1900.) Saint-Étienne, 1900. 465 pp., 18 pl., 9 x 6, pap. Ma-77.22.
- PHILADELPHIA & READING COAL & IRON CO.** Agreement of Creditors and Stockholders with the Board of Reconstruction Trustees of the P. & R. R. Co. and the P. & R. Coal & Iron Co. Note: Contains plan of reorganization. 1896. (See Af-389.)
- Report of the President and Managers; 1887-88, '92-1901. (See Ag-49 and Ag-481.)
- 56 **ROBERTS, PETER.** Anthracite coal industry: A study of the economic conditions and relations of the co-operative forces in the development of the anthracite coal industry of Pennsylvania, with an introduction by W. G. Sumner. N. Y., 1901. 13 + 261 pp., pl., maps, 9 x 6, cl.
- STASSART, SIMON.** Les conditions d'exploitation à grande profondeur en Belgique. (Congrès International des Mines et de la Métallurgie, Paris, 1900.) Saint-Étienne, 1900. 107 pp., pl., 9 x 6, pap. Ma-77.13.
- TEXAS, UNIVERSITY OF.** Coal, lignite and asphalt rocks in Texas. 1902. (See Yh-194, No. 15.)
- UNITED STATES—GEOLOGICAL SURVEY.** Statistics and information relating to the yearly production of coal in the United States; 1897-99. (See Yh-40.)
- VAUGHAN, T. W.** Reconnaissance in the Rio Grande fields of Texas; including a report on igneous rocks from the San Carlos coal field, by C. E. Lord. (U. S. Geological Survey. Bulletin No. 164.) 1900. (See Yh-87.)
- 57 **WALNER, ROBERT.** Die Bewetterung der Bergwerke. Leipzig, 1901-02. 2 v., ll., pl., 10 x 7, pap., cl.

Mb—(Continued).

WATTEYNE, VICTOR, and LUCIEN DENOEL. Les explosifs dans les mines de houille de Belgique. (Congrès International des Mines et de la Métallurgie, Paris, 1900.) Saint-Étienne, 1900. 76 pp., pl., 9 x 6, pap. Ma-77.12.

MINING—COPPER.**Mc**

- ADDICKS, LAWRENCE.** The Raritan Copper Works. 1901. (See Ma-12, v. 9, p. 261.)
- AUBURY, L. E.** Copper resources of California. 1902. (See Ma-15, No. 23.)
- BROOKS, A. H.** Reconnaissance from Pyramid Harbor to Eagle City, Alaska, including a description of the copper deposits of the Upper White and Tanana Rivers. (U. S. Geological Survey.) 1901. (See Yh-40, Annual report, 1899-1900, Pt. 2, p. 331.)
- BROUGH, B. H.** Sources of the world's supply of copper ore; principal mines now worked; deposits of the ores of lead and other metals. 1900. (See Ma-61, p. 44.)
- CHARPENTIER, HENRI.** Le cuivre et ses minerais. (Bibliothèque du Conducteur de Travaux Publics.) 1900. (See Yh-217, p. 173.)
- HANCOCK, H. L.** Mining and treatment of copper-ore at the Wallaroo and Moonta Mines, South Australia. 1902. (See Sd6-3.1, v. 24, p. 183.)
- MINERAL INDUSTRY;** its statistics, technology and trade in the United States and other countries; 1898-1901. (See Ma-12.)
- UNITED STATES—GEOLOGICAL SURVEY.** Statistics and information relating to the yearly production of copper in the United States; 1897-99. (See Yh-40.)
- VATTIER, CHARLES.** Notes on mining and metallurgy in Chile. 1901. (See Ma-62.)

MINING—GOLD AND SILVER.**Md**

- 2 **ALASKA MEXICAN GOLD MINING CO.** Annual statement; 8th-9th; 1900-01. Lond., 1900-01. 2 v., 10 x 8, pap.
- 22 **ALASKA TREADWELL GOLD MINING CO.** Annual statement; 10th-12th; for the year ending May 31st, 1900-02. no place, 1900-02. 3 v., pl., 10 x 8, pap.
- 3 **ALASKA UNITED GOLD MINING CO.** Annual statement; 5th-6th; 1900-01. no place, 1900-01. 2 v., 10 x 8, pap.
- BRITISH COLUMBIA—MINISTER OF MINES.** Annual report; being an account of mining operations for gold, coal, etc., in the Province of British Columbia; 1900. (See Ma-74.)
- BROUGH, B. H.** Sources of the world's supply of gold and silver; principal mines now worked; future resources. 1900. (See Ma-61, p. 15.)
- 48 **CALIFORNIA—STATE MINING BUREAU.** Total production of gold in California since 1848 by years; according to different authorities. no place, 1902. sheet, 22 x 12, pap.
- CHARPENTIER, HENRI.** Métaux rares. (Bibliothèque du Conducteur de Travaux Publics.) 1900. (See Yh-217, p. 557.)
- COMSTOCK TUNNEL CO.** Report to the Share and Bondholders; 1st; 1890. N. Y., 1890. 1 v., 9 x 6, b. p. Ad-271, p. 733.
- LOWE, T. H.** Map of the mining districts surrounding the townsite of Idaho Springs situate in Clear Creek County, Colo. 1881. (See Qf-538.)
- MINERAL INDUSTRY;** its statistics, technology and trade in the United States and other countries; 1898-1901. (See Ma-12.)
- MONTANA—BUREAU OF AGRICULTURE, LABOR AND INDUSTRY.** Montana and its magnificent resources. 1898. (See Qd-85.)
- NEW ZEALAND—MINES DEPARTMENT.** Papers and reports relating to minerals and mining, comprising statement by the Minister of Mines, report on the gold-fields, report on coal-mines, geological explorations. 1901. (See Ma-70.)
- NITZE, H. B. C., and H. A. J. WILKENS.** Gold mining in North Carolina and adjacent South Appalachian regions. 1897. (See Yh-196, No. 10.)
- O'HARRA, C. C.** Mineral resources of South Dakota, including mineral wealth of the Black Hills. 1902. (See Yh-223, No. 3.)
- RANSOME, F. L.** Report on the economic geology of the Silverton Quadrangle, Colo. (U. S. Geological Survey. Bulletin No. 182.) 1901. (See Yh-87.)
- RICHTHOFEN, F. B.** Comstock lode; its character, and the probable mode of its continuance in depth. 1866. (See Yh-202.)
- SAWYER, A. R.** Tarquah gold-fields, Gold Coast, South Africa. 1902. (See Sd6-3.1, v. 24, p. 124.)

Md—(Continued).

- 47 **SKETCH OF THE GREAT HISTORIC MINES OF THE CERRO DE PROANO** at Fresnillo, State of Zacatecas, Mexico, 1888. New Haven, Conn., 1888. 89 + 79 pp., pl., tab., 12 x 10, pap.
- SOUTH AFRICAN REPUBLIC—CHAMBER OF MINES.** Annual report; 1899. (See Ma-75.)
- 26 **SOUTH AFRICAN REPUBLIC—DEPARTMENT VAN MIJNWESEN.** Statistiek van goudopbrengst en werkzaamheden in de goudmijnen; Nos. 1-2; 1898-99. Pretoria, 1899. 1 v., tab., 20 x 80, pap.
- STEIN'S PASS MINING CO.** Prospectus. no place, 1881, 4 pp., 13 x 8, b. p. Af-302, p. 7.
- STORMS, W. H.** Mother lode region of California. 1900. (See Ma-15, No. 18.)
- TOWER, G. W., Jr., and G. O. SMITH.** Geology and mining industry of the Tintic District, Utah. (U. S. Geological Survey.) 1899. (See Yh-40, Annual report, 1897-98, Pt. 3, p. 601.)
- 46 **UNITED STATES—DIRECTOR OF THE MINT.** Report upon production of the precious metals in the United States; 1888. Wash., 1899. 1 v., tab., 9 x 6, cl.
- UNITED STATES—GEOLOGICAL SURVEY.** Bingham mining map, Utah. 1901. (See Qf-536.)
- Mineral resources and methods of mining and extraction, Cape Nome gold region, Alaska. 1900. (See Yh-170, p. 16.)
- Reconnaissances in the Cape Nome and Norton Bay regions, Alaska, in 1900; by Alfred H. Brooks, George B. Richardson, Arthur J. Collier and Walter C. Mendenhall. 1901. (See Yh-220.)
- Statistics and information relating to the yearly production of gold and silver in the United States; 1897-99. (See Yh-40.)
- VATTIER, CHARLES.** Notes on mining and metallurgy in Chile. 1901. (See Ma-62.)
- 41 **VICTORIA CHAMBER OF MINES.** Monthly return of the goldfields of Victoria; Feb.-May, Sept.-Dec., 1900; Jan.-Feb., Apr.-Aug., 1901. Melbourne, 1900-01. 2v., 18 x 8, pap.

MINING—IRON.**Me**

- BECK, LUDWIG.** Die Geschichte des Eisens in technischer und kulturgeschichtlicher Beziehung; v. 1-4; v. 5, Pts. 1-6. 1891-1902. (See Yi-105.)
- BRITISH IRON TRADE ASSOCIATION.** American industrial conditions and competition: Reports of the Commissioners appointed by the Association to enquire into the iron, steel and allied industries of the United States; ed. by J. Stephen Jeans. 1902. (See Sd6-23.2.)
- BROUGH, B. H.** Sources of the world's supply of iron ore; principal mines now worked; future resources. 1900. (See Ma-61, p. 30.)
- CHARPENTIER, HENRI.** Le fer et ses minerais. (Bibliothèque du Conducteur de Travaux Publics.) 1900. (See Yh-217, p. 147.)
- 9 **DEMARET, LEON.** Les principaux gisements de minerais de fer du monde; les réserves de l'Europe et celles des États-Unis d'Amérique. Bruxelles, 1902. 61 pp., il., maps, 10 x 6, pap.
- HUNT, T. S.** Notes on iron and iron ores. Montreal, 1870. pp. 245-304, 9 x 6, b. p. Mb-54, p. 463.
- KIRCHHOFF, C.** Cleveland (England) Mining District. 1900. (See Yi-29, p. 89.)
- Iron ore supplies of Germany. 1900. (See Yi-29, p. 10.)
- Minette district of Lorraine, Luxemburg and France. 1900. (See Yi-29, p. 50.)
- MINERAL INDUSTRY;** its statistics, technology and trade in the United States and other countries; 1898-1901. (See Ma-12.)
- NITZE, H. B. C.** Iron ores of North Carolina: A preliminary report. 1898. (See Yh-196, No. 1.)
- UNITED STATES—GEOLOGICAL SURVEY.** Statistics and information relating to the yearly production of iron in the United States; 1897-99. (See Yh-40.)
- VAN HISE, C. R.** Iron-ore deposits of the Lake Superior region. (U. S. Geological Survey.) 1901. (See Yh-40, Annual report, 1899-1900, Pt. 3, p. 306.)

MINING—LEAD.**Mf**

- CHARPENTIER, HENRI.** Le plomb et ses minerais. (Bibliothèque du Conducteur de Travaux Publics.) 1900. (See Yh-217, p. 208.)
- MINERAL INDUSTRY;** its statistics, technology and trade in the United States and other countries; 1898-1901. (See Ma-12.)

Mf—(Continued).

UNITED STATES—GEOLOGICAL SURVEY. Statistics and information relating to the yearly production of lead in the United States; 1897-99. (See Yh-40.)

MINING—TIN.**Mg**

CHARPENTIER, HENRI. L'étain et ses minerais. (Bibliothèque du Conducteur de Travaux Publics.) 1909. (See Yh-217, p. 253.)

MINERAL INDUSTRY; its statistics, technology, and trade in the United States and other countries; 1898-1901. (See Ma-12.)

UNITED STATES—GEOLOGICAL SURVEY. Statistics and information relating to the yearly production of tin in the United States; 1897-99. (See Yh-40.)

WEED, W. H. El Paso tin deposits. (U. S. Geological Survey. Bulletin No. 178.) 1901. (See Yh-87.)

MINING—ZINC.**Mh**

CHARPENTIER, HENRI. Le zinc et ses minerais. (Bibliothèque du Conducteur de Travaux Publics.) 1900. (See Yh-217, p. 236.)

MINERAL INDUSTRY; its statistics, technology and trade in the United States and other countries; 1898-1901. (See Ma-12.)

UNITED STATES—GEOLOGICAL SURVEY. Statistics and information relating to the yearly production of zinc in the United States; 1897-99. (See Yh-40.)

ROADS AND PAVEMENTS.

ROADS AND PAVEMENTS—GENERAL.

Na

- 124 **AITKEN, THOMAS.** Road making and maintenance: A practical treatise for engineers, surveyors and others, with an historical sketch of ancient and modern practice. Lond., 1900. 16 + 440 pp., 9 x 7, cl.
- ALLEGHENY, PA.—CITY ENGINEER.** Annual report; 1875-76, '81-83, '87, '98. (See Oa30-2.1.)
- ARLINGTON, MASS.—TOWN OFFICERS.** Reports; 1874-77, '79-85. (See Oa28-2.1.)
- AUBURN, ME.—STREET COMMISSIONER.** Annual report; 1893, '95. (See Oa38-2.1.)
- AUGUSTA, GA.—CITY COUNCIL.** Mayor's message, city officers' reports, and accompanying documents with report of Board of Health; 1894-98, '90-96, '98-1901. (See Oa40-2.1.)
- 91 **BAKER, I. O.** Fallacies in good-road economics. no place, no date. 19 pp., il., tab., 9 x 6, pap. no title-page.
- BALTIMORE, MD.—CITY COMMISSIONER.** Annual report; 1895-97. (See Ob5-8.1.)
- BANGOR, ME.—STREET COMMISSIONER.** Annual report; 1884-85, '87-88. (See Ob10-2.1.)
- BARABANT.** English tramways: Translation of report of M. Barabant, Chief Engineer of Public Ways, Paris, 1884. Note: Results produced on various kinds of pavements by the presence of rails, both as regards first cost and maintenance. 1885. (See Na-115, p. 29.)
- 188 **BERTHOT, PIERRE.** Traité des routes, rivières & canaux. Contents: v. 1, Routes. v. 2, Rivières. v. 3, Canaux. Paris, no date. 8 v., il., maps, 11 x 8, ½ mor.
- BOSTON—ENGINEERING DEPARTMENT.** Annual report; 1894-1900. (See Ob85-3.1.)
- BRADFORD, PA.—STREET COMMISSIONER.** Annual report for the fiscal year ending Apr. 1st, 1895-98, 1900-02. (See Ob88-2.1.)
- BRIDGEPORT, CONN.—AUDITOR.** Municipal register; 1881. (See Ob40-2.1.)
- BROOKLYN, N. Y.—DEPARTMENT OF CITY WORKS.** Annual report; 1892-93, '96. (See Ob45-2.1.)
- BUFFALO, N. Y.—BUREAU OF ENGINEERING.** Annual report; 1892. (See Ob50-4.1.)
- BUFFALO, N. Y.—DEPARTMENT OF PUBLIC WORKS.** Annual report; 1899-1900. (See Ob50-6.1.)
- 22a **BYRNE, A. T.** Treatise on highway construction, designed as a text-book and work of reference for all who may be engaged in the location, construction, or maintenance of roads, streets and pavements. ed. 4, rev. and enl. N. Y., 1900. 40 + 895 pp., il., tab., 9 x 6, cl.
- CAMBRIDGE, MASS.—SUPERINTENDENT OF STREETS.** Annual report; 1846, '86-88, '91, '94, '96, '98-99. (See Oc5-3.1.)
- CAMPREDON, EUGENE.** Rôle économique et social des voies de communication. (Bibliothèque du Conducteur de Travaux Publics.) 1899. (See Zj-908.)
- CHICAGO, ILL.—DEPARTMENT OF PUBLIC WORKS.** Annual report; 1900-01. (See Oc35-2.1.)
- CHICOPEE, MASS.—SUPERINTENDENT OF STREETS.** Annual report; 1896-97, '99. (See Oc40-2.1.)
- CINCINNATI, OHIO—CIVIL ENGINEER.** Annual report; 1860, '97. (See Oc45-2.1.)
- CLEVELAND, OHIO—CITY CIVIL ENGINEER.** Annual report; 1874-75, '82, '87, '89-90, '98-1900. (See Oc50-2.1, Oc50-3.1 and Oc50-4.1.)
- CLEVELAND, OHIO—DEPARTMENT OF PUBLIC WORKS.** Annual report; 1898-99. (See Oc50-4.1.)
- CLEVELAND, OHIO—SUPERINTENDENT OF STREETS.** Report; 1874-75, '82, '87, '89, '98-1900. (See Oc50-3.1.)

Na—(*Continued*).

- CONCORD, N. H.—STREET COMMISSIONER.** Annual report; 1884-85. (See Oc65-3.1.)
- CUBA.** Report of the Chief Engineer, Division of Cuba; July, 1899-Dec., 1900. (See Oh23-3.1.)
- DAVENPORT, IOWA—STREET COMMISSIONER.** Annual report; 1900. (See Od15-2.1.)
- DISTRICT OF COLUMBIA—COMMISSIONERS.** Annual report for the year ending June 30th, 1896. (See Od40-2.1.)
- DISTRICT OF COLUMBIA—ENGINEER DEPARTMENT.** Annual report of the operations of the Department; 1888, '86, '98-1902. (See Od40-3.1.)
- DOVER, N. H.—JOINT STANDING COMMITTEE ON STREETS.** Annual report; 1883-84, '89-91, '97, 1900-01. (See Od50-2.1.)
- DULUTH, MINN.—CITY ENGINEER.** Annual report; 1900. (See Od60-4.1.)
- EASTON, PA.—CITY ENGINEER.** Annual report; 1893, '95-96. (See Oe15-2.1 and Oe15-3.1.)
- EGYPT—PUBLIC WORKS DEPARTMENT.** Report upon the administration of the Public Works Department, with reports by the officers in charge of the several branches of the Administration; 1899. (See De-151.)
- ENGLAND.** English tramways: Translation of report of M. Barabant, Chief Engineer of Public Ways, Paris, 1884. Note: Results produced on various kinds of pavements by the presence of rails both as regards first cost and maintenance. 1885. (See Na-115, p. 29.)
- ERIE, PA.—CITY ENGINEER.** Annual report for the year ending Apr., 1881. (See Oe45-2.1.)
- EVERETT, MASS.—CITY ENGINEER.** Annual report; 1897. (See Oe55-3.1.)
- FALL RIVER, MASS.—CITY ENGINEER.** Report; 1882-84, '88-89, '92, '96-97. (See Of10-2.1.)
- FITCHBURG, MASS.—CITY ENGINEER.** Annual report; 1900-01. (See Of25-2.1.)
- FITCHBURG, MASS.—MAYOR.** Address; together with the annual reports of the city; 1874-76, '78, '81, '84-85, '89, '96-97. (See Of25-3.1.)
- 121 **GILLETTE, H. P.** Economics of road construction. N. Y., 1901. 41 pp., il., 9 x 6, cl.
- GLOUCESTER, MASS.—CITY ENGINEER.** Annual report; 1898. (See Og23-2.1.)
- GLOVERSVILLE, N. Y.—COMMON COUNCIL.** Annual reports; 1901. (See Og25-2.1.)
- GOODHUE, W. F.** Street surface: Pavements and implements. 1900. (See Oa1-11, p. 26.)
- 114 **GRAHAMITE & TRINIDAD ASPHALT PAVEMENT CO.** Letters of Gen. Q. A. Gillmore and others on the merits and demerits of the various kinds of street pavements. N. Y., 1876. 47 pp., 9 x 6, pap.
- HARRISBURG, PA.—COUNCILS.** Department reports; 1898. (See Oh15-2.1.)
- HARTFORD, CONN.—BOARD OF STREET COMMISSIONERS.** Annual report; 1883-84, '90. (See Oh20-2.1.)
- HAVANA, CUBA—MAYOR.** Specifications, etc., for sewerage system and street paving. 1901. (See Ec-297.)
- HOLYOKE, MASS.—BOARD OF ALDERMEN.** Municipal register, containing the Mayor's address, city government roster, annual reports, etc.; 1875-76, '86-90, '94, '96-97. (See Oh50-3.1.)
- HUDSON, N. Y.—COMMISSION OF PUBLIC WORKS.** Report; 1899. (See Oh55-2.1.)
- ILLINOIS—BOARD OF COMMISSIONERS OF PUBLIC WORKS.** Abstract of the proceedings, Dec. Session, 1887. (See Ah-60.)
- INDIANAPOLIS, IND.—DEPARTMENT OF PUBLIC WORKS.** Annual report; 1895. (See Oi35-3.1.)
- ITALY—MINISTERO DEI LAVORI PUBBLICI.** Relazione sull' andamento dei servizi; July, 1898-Dec., '90. (See Ai-95.)
- JACKSON, MISS.—MAYOR.** Instructions to bidders, specifications and form of proposal for the construction of brick pavement and street improvement. 1902. (See Nf-21.)
- JERSEY CITY, N. J.—BOARD OF PUBLIC WORKS.** Annual report of Chief Engineer; 1880. (See Oj15-2.1.)
- 141 **JERSEY CITY, N. J.—BOARD OF STREET AND WATER COMMISSIONERS.** Annual report; 1895-1901. no place, 1895-1901. 7 v. in 6, 9 x 6, pap.
- JOLIET, ILL.—STREET COMMISSIONER.** Annual report; 1899-1901. (See Oj20-2.1.)

Na—(Continued).

- 23a JUDSON, W. P. City roads and pavements suited to cities of moderate size. ed. 2, rev. and enl. N. Y., 1902. 135 pp., il., pl., 9 x 6, cl.
- KANSAS CITY, MO.—BOARD OF PUBLIC WORKS. Annual report to the Common Council for the fiscal year ending Apr. 16th, 1900. (See Ok15-5.1.)
- KEENE, N. H.—SUPERINTENDENT OF HIGHWAYS. Report; 1881-84, '89, '92, '95-96. (See Ok20-2.1.)
- LACONIA, N. H.—STREET DEPARTMENT. Annual report of the Street Commissioner; 1897. (See Ol4-2.1.)
- 140 LEFEBVRE, GEORGES. Voie publique. (Bibliothèque du Conducteur de Travaux Publics.) Paris, 1896. 8 + 520 pp., il., 8 x 5, ro.
- LEGER, ALFRED. Les travaux publics, les mines et la métallurgie aux temps des Romains; la tradition romaine jusqu'à nos jours. 1875. (See Ca-84.)
- LOUISVILLE, KY.—GENERAL COUNCIL. Annual reports; 1866-99. (See Ol50-2.1.)
- LYNCHBURG, VA.—CITY COUNCIL. Reports of the Standing Committees of the Council; July, 1877-78, July, '79-Jan., '87. (See Ol55-2.1.)
- LYNN, MASS.—BOARD OF PUBLIC WORKS. Annual reports; 1901. (See Ol60-3.1.)
- LYNN, MASS.—CITY ENGINEER. Annual report; 1875. (See Ol60-4.1.)
- LYNN, MASS.—SUPERINTENDENT OF STREETS. Annual report; 1890. (See Ol60-4.1.)
- MADRAS—PUBLIC WORKS DEPARTMENT. Administration report: General, and buildings and roads; 1900-01. (See Ja-82.)
- MALDEN, MASS.—MAYOR. Inaugural address, with annual reports of the officers and committees; 1892, '96-97. (See Om5-3.1.)
- MANCHESTER, N. H.—CITY OFFICERS. Annual report of the receipts and expenditures, together with other annual reports and papers relating to the affairs of the city; 1892, '94, '98-1900. (See Om10-3.1.)
- MARLBOROUGH, MASS.—CITY GOVERNMENT. Annual report; 1896. (See Om15-3.1.)
- MARYLAND. Second report on the highways of Maryland, with especial reference to the operations of the Highway Division during 1900 and 1901. H. F. Reid and A. N. Johnson. (Maryland Geological Survey.) 1902. (See Yh-218, v. 4, Pt. 2.)
- 68 MARYLAND—GEOLOGICAL SURVEY. Public general and public local laws of Maryland relating to highways, compiled from the Code of 1888 and the laws of Maryland for 1890, '92, '94, '96 and '98. Balt., 1899. 80 pp., 10 x 7, pap.
- 125 —Report on the highways of Maryland, in accordance with an act passed at the session of the General Assembly of 1898. Balt., 1899. 461 pp., pl., maps, 10 x 8, cl.
- 180 MASSACHUSETTS—HIGHWAY COMMISSION. Annual report; 1st-4th, 6th, 8th-9th; 1893-96, '98, 1900-01. Bost., 1898-1902. 7 v., tab., 9 x 6, pap.
- MEDFORD, MASS.—MAYOR. Address to the City Council; the City Government, the financial statements, and the annual reports; 1892-94. (See Om23-2.1.)
- MELROSE, MASS.—PUBLIC WORKS DEPARTMENT. Annual report for the fiscal year ending Jan. 31st, 1901. (See Om22-2.1.)
- 119 MEXICO.—MINISTERIO DE FOMENTO. Memoria presentada al Congreso de la Union por el Secretario de Estado y del Despacho de Fomento, Colonizacion, Industria y Comercio de la República Mexicana; 1877. Mexico, 1877. 1 v., pl., maps, 18 x 10, pap.
- MIDDLETOWN, CONN.—MAYOR. Annual message; and reports of the several departments of the city; 1873-79, '96-98. (See Om35-2.1.)
- MILWAUKEE, WIS.—BOARD OF PUBLIC WORKS. Annual report; 1899-1900. (See Om40-4.1.)
- MINNEAPOLIS, MINN.—CITY ENGINEER. Annual report; 1900-01. (See Om45-3.1.)
- MOBILE, ALA.—STREET INSPECTOR. Report; 1884. (See Om50-2.1.)
- MONTREAL, QUE.—CITY COUNCIL. Reports on the corporation accounts; reports of the Chiefs of Departments; 1898-99. (See Om55-2.1.)
- 109 MONTREAL, QUE.—CITY ENGINEER. Report on permanent roadway pavements for the City of Montreal, presented to the Road Committee, 21st Mar., 1883, in compliance with instructions received 7th Dec., 1881. Montreal, 1883. 18 pp., 9 x 6, pap.
- MONTREAL, QUE.—CITY SURVEYOR. Report on the various works executed by the Road Department; 1881. (See Om55-3.1.)
- NASHVILLE, TENN.—CITY ENGINEER. Report; 1901. (See On10-3.1.)

Na—(Continued).

- 95 —Street construction: Report to the City Council. Nashville, 1881. 14 pp., 9 x 6, pap.
- NEW BEDFORD, MASS.—MAYOR. Address to the City Council; City Government; and reports of committees; 1889, '95-96, '99-1900. (See On15-3.1.)
- NEW BRITAIN, CONN.—COMMON COUNCIL. Annual report of the Mayor and the several departments of the city for the year ending April 1st, 1885. (See On16-2.1.)
- NEW HAVEN, CONN.—BOARD OF ROAD COMMISSIONERS. Report; 1869. (See On20-4.1.)
- 37 NEW JERSEY—COMMISSIONER OF PUBLIC ROADS. Annual report; 1st, 7th-8th; 1894, 1900-01. Camden, 1895-01. 3 v., pl., 9 x 6, cl.
- 108 NEW YORK CHAMBER OF COMMERCE. Report of a Special Committee on improvement of the street pavements in the business part of the city. N. Y., 1888. 6 pp., 9 x 6, pap.
- 125 NEW YORK CITY. Table showing length of streets regulated and graded, from 1871 to 1898. no place, 1898. 22 pp., 9 x 6, pap.
- NEW YORK CITY—CROTON AQUEDUCT DEPARTMENT. Annual report made to the Common Council; 1853, '56-58. (See De-627.)
- 79 NEW YORK CITY—DEPARTMENT OF HIGHWAYS. Annual report; 2d-3d; 1899-1900. Note: Contains the four Quarterly reports. N. Y., 1900-01. 2 v., 9 x 6, cl., pap.
- NEW YORK CITY—DEPARTMENT OF PUBLIC WORKS. Annual report; 1882, '85, '96. (See On25-8.1.)
- Report (quarterly); Sept., 1876; Mar., '78-Dec., '79; Dec., '81; Dec., '84; Dec., '86; Dec., '91; Dec., '94. (See On25-8.2.)
- 92 NEW YORK CITY—WATER PURVEYOR. Report for the quarter and year ending Dec. 31st, 1895. N. Y., 1896. 1 v., 9 x 6, pap.
- 129 NEW YORK STATE. Resolutions; with reports, resolutions and copies of proposed legislation affecting the entire highway system of the State, recommended by Third Annual Convention in interest of road improvement. Utica Chamber of Commerce. Utica, 1902. 34 pp., maps, 9 x 6, pap.
- 116 NEW YORK STATE—LEGISLATURE. Act in relation to highways, constituting Chapter Nineteen of the General Laws, approved by the Governor, June 7th, 1890. no place. 1890. 86 pp., 9 x 6, pap. no title-page.
- NEW YORK—STATE ENGINEER AND SURVEYOR. Annual report for the fiscal year ending Sept. 30th, 1898-1901. (See Cfh-25.)
- NEWARK, N. J.—BOARD OF STREET AND WATER COMMISSIONERS. By-laws, rules and regulations, adopted May 18th, 1891. (See De-111.)
- NEWPORT, R. I.—STREET COMMISSIONER. Annual report; 1857, '69-73, '75-76, '78, '83, '86. (See On37-2.1.)
- NEWTON, MASS.—CITY ENGINEER. Annual report; 1900-01. (See On40-2.1.)
- NEWTON, MASS.—STREET DEPARTMENT. Annual report, including sewers, street lights, parks and burial grounds; 1898. (See On40-3.1.)
- NICARAGUA—MINISTERIO DE FOMENTO. Memoria; 1885-86. Note: Contains study for a wagon road in Segovia. no date. (See Ai-59.)
- NORTH ADAMS, MASS.—CITY ENGINEER. Annual report; 1896-97. (See On50-3.1.)
- NORTH CAROLINA—HIGHWAY COMMISSION. Some recent road legislation in North Carolina. 1899-1901. (See Yh-195, Economic papers, Nos. 2 and 5.)
- NORTHAMPTON, MASS.—SUPERINTENDENT OF STREETS. Annual report; 1896-97. (See On55-2.1.)
- OTTAWA, ONT.—CITY ENGINEER. Annual report; 1900. (See Oo30-4.1.)
- PATERSON, N. J.—CITY OFFICERS. Annual reports for the year ending Mar. 20th, 1875-84. (See Op15-2.1.)
- PAWTUCKET, R. I.—BOARD OF PUBLIC WORKS. Annual report; 1901. (See Op18-2.1.)
- PENNSYLVANIA—BOARD OF AGRICULTURE. Roads and road laws, road construction and road repairs. 1890. (See Yb-50, Quarterly reports, 41st-42d.)
- 122 PENNSYLVANIA, UNIVERSITY OF. Move for better roads: Essays on road-making and maintenance and road laws, for which prizes or honorable mention were awarded through the University of Pennsylvania by a committee of citizens of Philadelphia; with a synopsis of other contributions and a review, by Lewis M. Haupt; also an introduction by William H. Rhawn. Phil., 1891. 16+319 pp., 9 x 6, cl.
- PEORIA, ILL.—CITY COMPTROLLER. Statement of the finances; together with reports of the various departments; 1900-01. (See Op20-3.1.)
- PEORIA, ILL.—DEPARTMENT OF PUBLIC WORKS. Annual report; 1895-97. (See Op20-4.1.)

Na—(Continued).

- 115 **PHILADELPHIA—COMMITTEE ON HIGHWAYS.** Report, to which is appended the Report of the Sub-Committee, and remarks of Capt. F. V. Greene, and other experts, relative to repaving certain streets with improved pavement, containing valuable information about street railways in connection with the proper maintenance of streets, the defects of the system in use here, and the remedies applied in foreign countries; also, a translation of the report on English tramways, by M. Barabant, Chief Engineer of Public Ways, Paris, France. Phil., 1885. 39 pp., pl., 9 x 6, pap.
- PHILADELPHIA, PA.—DEPARTMENT OF HIGHWAYS.** Report of the Chief Commissioner; 1884. (See Op25-5.1.)
- PITTSBURG, PA.—DEPARTMENT OF PUBLIC WORKS.** Annual report; 1899. (See Op28-2.1.)
- 117 **POPE, A. A., and E. P. CARPENTER.** "A move for better roads": Arguments before the Committee on Roads and Bridges of the Massachusetts Legislature. Mar. 17th and 24th, 1891, with bill. Bost., 1891. 30 pp., 9 x 6, pap.
- PORTLAND, ME.—STREET COMMISSIONER.** Report; 1868, '70. (See Op45-2.1.)
- PORTLAND, ORE.—CITY ENGINEER.** Annual report; 1891, '98-1901. (See Op46-2.1.)
- 118 **POTTER, I. B.** Gospel of good roads: A letter to the American farmer. Note: Relates to the improvement of common roads. N. Y., 1891. 64 pp., il., 9 x 7, pap.
- POUGHKEEPSIE, N. Y.—BOARD OF PUBLIC WORKS.** Annual report; 1896-1900. (See Op50-3.1.)
- PROVIDENCE, R. I.—CITY ENGINEER.** Annual report; 1900-01. (See Op55-2.1.)
- PROVIDENCE, R. I.—DEPARTMENT OF PUBLIC WORKS.** Quarterly reports: Mar.-June, Dec., 1888; June, '84; Dec., '84-Mar., '86; Sept., '87-Dec., '90; June-Dec., '91; June, '92-Dec., 1900. (See Op65-3.1.)
- QUINCY, ILL.—MAYOR.** Inaugural address; together with the annual reports of the officers; 1889, '96-97, 1900. (See Oq9-2.1.)
- 126 **REGIER FOR UDARBEIDELSE AF FORSLAG TIL VEI- OG BROARBEIDER** i Statens Veivæsen. Christiania, 1898. 67 pp., 8 x 6, pap.
- ROCHESTER, N. Y.—DEPARTMENT OF PUBLIC WORKS.** Annual report; 1900. (See Or15-3.1.)
- ROCHESTER, N. Y.—EXECUTIVE BOARD.** Annual report of the Board, in charge of the Departments of Water-Works, Fire, Highway and Street Improvements; 1899. (See Or15-2.1.)
- ROCKFORD, ILL.—CITY ENGINEER.** Annual report; 1898-99. (See Or20-3.1.)
- 189 **ROUX, ONESIME.** Routes et chemins vicinaux. (Bibliothèque du Conducteur de Travaux Publics.) Paris, 1901. 9 + 579 pp., il., 8 x 5, ro.
- RUSSIA—DIRECTION DES VOIES NAVIGABLES, DES CHAUSSEES ET DES Ports de Commerce.** Exposition Universelle de 1900: Notice sur les voies navigables, les chaussées et les ports de commerce de la Russie, par N. Vosnesensky: Catalogue des objets exposés par la Direction. (Ministère des Voies de Communication.) 1900. (See Yf-169.)
- RUTLAND, VT.—CITY ENGINEER.** Report; 1900. (See Or35-2.1.)
- ST. JOSEPH, MO.—CITY ENGINEER.** Annual reports; 1896, '99. (See Os25-3.1.)
- ST. PAUL, MINN.—CITY OFFICERS AND CITY BOARDS.** Annual reports; 1886, '88, '98. (See Os35-4.1.)
- SALT LAKE CITY, UTAH—MAYOR.** Annual message; with the annual reports of the officers; 1892. (See Os50-3.1.)
- SAN FRANCISCO, CAL.—BOARD OF SUPERVISORS.** Municipal reports for the year ending June 30th, 1860, '65, '70-71, '73-75, 1900-01. (See Os55-2.1.)
- SAVANNAH, GA.—MAYOR.** Annual report; to which is added the Treasurer's report and reports of the different departments; 1882-98, '96. (See Os63-2.1.)
- 101 **SHALER, N. S.** Betterment of our highways. no place, 1892. pp. 505-514, 9 x 6, pap.
- SOMERVILLE, MASS.—CITY COUNCIL.** Report of the Committee on Highways; 1870, '73, '90-93, '95-98. (See Os75-2.1.)
- 142 **SOMERVILLE, MASS.—STREET COMMISSIONER.** Annual report; 1900. Somerville, 1901. 1 v., pl., 9 x 6, pap.
- SOUTH NORWALK, CONN.—STREET COMMISSIONER.** Annual report; 1898-1900. (See Os78-2.1.)
- SPRINGFIELD, ILL.—OFFICERS.** Report for the fiscal year ending Feb. 28th; 1899. (See Os79-3.1.)
- SPRINGFIELD, MASS.—SUPERINTENDENT OF STREETS AND SEWERS.** Annual report of the Superintendent to the City Council; 1882, '90, '95-96, '98-99. (See Os80-3.1.)

Na—(Continued).

- 127 **SWEDEN.** Normaler for Statens Veivæsen. no place, 1901. 58 pp., pl., 9 x 6, pap.
- TAUNTON, MASS.—SUPERINTENDENT OF STREETS.** Annual report; 1877, '79, '82, '84, '88-89. (See Ot10-2.1.)
- 120 **TILLSON, G. W.** Street pavements and paving materials: A manual of city pavements; the methods and materials of their construction. N. Y., 1900. 12 + 582 pp., il., 73 tab., 9 x 6, cl.
- TORONTO, ONT.—CITY ENGINEER.** Annual report; 1878-81, '90-1900. (See Ot30-2.1.)
- 131 **UNITED STATES—CORPS OF ENGINEERS.** Specifications, etc., for constructing roads. various places, 1887-98. 3 v., 14 x 8, pap. no title-page.
- 128 **UNITED STATES—OFFICE OF ROAD INQUIRY.** Proceedings of the International Good Roads Congress, held at Buffalo, N. Y., Sept. 16th to 21st, 1901. (Bulletin No. 21.) Wash., 1901. 100 pp., 9 x 6, pap.
- UTICA, N. Y.—CITY SURVEYOR.** Annual report; 1898-99. (See Ou8-2.1.)
- WATERBURY, CONN.—CITY ENGINEER.** Annual report; 1898-99. (See Ow10-2.1.)
- 12 **WILLIMANTIC, CONN.—JOINT STANDING COMMITTEE ON STREETS.** Report on pavements. Willimantic, 1897. unpag., tab., 9 x 6, pap.
- WINNIPEG, MAN.—CITY ENGINEER.** Annual report; 1901. (See Ow36-2.1.)
- WOBURN, MASS.—COMMISSIONER OF STREETS.** Reports; 1898-1901. (See Ow38-2.1.)
- WORCESTER, MASS.—MAYOR.** Inaugural address of the Mayor; with annual reports of the several departments; 1898-99, '95-96. (See Ow40-2.1.)

ROADS AND PAVEMENTS—EARTH.**Nb**

- BAKER, I. O.** Construction and care of earth roads. 1901. (See Yb-52, No. 65.)
- GILLETTE, H. P.** Earth roads and earthwork. 1901. (See Na-121, p. 3.)

ROADS AND PAVEMENTS—BROKEN STONE.**Nc**

- AITKEN, THOMAS.** Stone breaking and haulage for pavements. 1900. (See Na-124, p. 180.)
- BERTHOT, PIERRE.** Chaussées en empierrement. no date. (See Na-188, v. 1, p. 251.)
- BYRNE, A. T.** Broken-stone pavements. 1900. (See Na-22a, p. 246.)
- GILLETTE, H. P.** Macadam roads. 1901. (See Na-121, p. 19.)
- JUDSON, W. P.** Broken-stone roads. 1902. (See Na-22a, p. 138.)
- LEFEBVRE, GEORGES.** Chaussées en empierrement. (Bibliothèque du Conducteur de Travaux Publics.) 1896. (See Na-140, p. 127.)
- MASSACHUSETTS—HIGHWAY COMMISSION.** Description of laboratory and apparatus, together with results of tests on road building stones. 1899. (See Na-180, Annual report, 1898, p. 59.)
- NEW JERSEY—COMMISSIONER OF PUBLIC ROADS.** Macadam roads in New Jersey. 1900. (See Na-37, Annual report.)
- PENNSYLVANIA, UNIVERSITY OF.** Move for better roads: Essays on roadmaking and maintenance and road laws, for which prizes or honorable mention were awarded through the University of Pennsylvania by a committee of citizens of Philadelphia; with a synopsis of other contributions and a review, by Lewis M. Haupt; also an introduction by William H. Rhawn. 1891. (See Na-122.)
- TILLSON, G. W.** Broken-stone pavements. 1900. (See Na-120, p. 329.)

ROADS AND PAVEMENTS—MONOLITHIC.**Ne**

- AITKEN, THOMAS.** Asphalte pavements. 1900. (See Na-124, p. 348.)
- BERTHOT, PIERRE.** Pavage en asphalte comprimé. no date. (See Na-188, v. 1, p. 273.)
- BUFFALO, N. Y.—BUREAU OF ENGINEERING.** Asphalt pavements. 1900. (See Ob50-6.1, Annual report, 1900, p. 21.)
- BYRNE, A. T.** Asphaltum and coal-tar pavements. 1900. (See Na-22a, p. 157.)
- 29 **COMING PAVEMENT, THE.** Note: Description of asphalt pavements. N. Y. 1875. 89 pp., 9 x 6, pap.

Ne—(Continued).

- 35 **DE SMEDT, E. J.** In the U. S. Patent Office, interference; *De Smedt vs. Averill*, subject—*asphalt pavements*: Preliminary statement of E. J. De Smedt. Note: Contains also preliminary statement of W. W. Averill. no place, 1879. 15 pp., 9 x 6, pap. no title-page.
- GRAHAMITE & TRINIDAD ASPHALT PAVEMENT CO.** Letters of Gen. Q. A. Gillmore and others on the merits and demerits of the various kinds of street pavements. 1876. (See Na-114.)
- JUDSON, W. P.** Asphalt pavements. 1902. (See Na-22a, p. 108.)
- LEFEBVRE, GEORGES.** Chaussées en asphalte comprimé. (Bibliothèque du Conducteur de Travaux Publics.) 1896. (See Na-140, p. 198.)
- MITCHELL, A. H., comp.** Information and expert opinions as to street pavements, of great interest to the tax-payers of Avondale. Note: Relates to the advisability of using brick and asphalt for pavements. 1890. (See Nf-18.)
- 41 **NEW ENGLAND PAVING CO.** General directions for laying American asphalt pavements. no place, 1891. 15 pp., 9 x 6, pap.
- 39 **NEW YORK CITY.** Final argument before the Board of Estimate and Apportionment of the City of New York, in favor of finishing the pavement of the Grand Boulevard from 59th to 110th Sts., with asphalt, out of the appropriation for 1890. W. E. D. Stokes. no place, 1889. 21 pp., 9 x 6, pap.
- 40 —Memorandum of asphalt pavements laid in New York up to Jan. 1st, 1898. no place, 1898. 33 pp., 9 x 6, pap.
- PHILADELPHIA—COMMITTEE ON HIGHWAYS.** Report, to which is appended the Report of the Sub-Committee, and remarks of Capt. F. V. Greene, and other experts, relative to repaving certain streets with improved pavement, containing valuable information about street railways in connection with the proper maintenance of streets, the defects of the system in use here, and the remedies applied in foreign countries; also, a translation of the report on English tramways, by M. Barabant, Chief Engineer of Public Ways, Paris, France. 1886. (See Na-115.)
- 33 **RICE, W. P., and others.** Can Trinidad asphalt pavement be laid in Cleveland: A report of City Engineer Rice, with criticisms thereon, and opinions of civil engineers elsewhere. no place, 1888(?) 20 pp., 9 x 6, pap.
- 38 **SEYSSSEL NATURAL ROCK ASPHALTE: FACTS REGARDING ITS HISTORY** and intrinsic properties; testimony relating to its practical application. N. Y., 1873. 24 pp., 9 x 6, pap.
- 34 **TAYLOR, MATT.** To the Shareholders and Bondholders of the North American Neuchatel Rock Paving Company, Limited, London, England. Note: Statements relating to the alleged illegal use of the Company's funds. no place, 1878. 22 pp., 9 x 6, pap.
- TILLSON, G. W.** Asphalt pavements. 1900. (See Na-120, pp. 211 and 487.)
- 28 **TRINIDAD ASPHALT ALL THE SAME WHETHER LAKE, LAND OR OVERFLOW;** the same in origin, physical and chemical properties; some sources of supply distasteful to the Pitch Lake Monopoly only because they cannot collect tribute money from it. no place, 1898(?) 35 pp., pl., tab., 9 x 6, pap.
- 31 **TRINIDAD ASPHALT CO.** Lake and land asphalts of Trinidad. Lond., 1898. 15 + 4 pp., map, 8 x 6, pap.
- 32 **WARREN-SCHARF ASPHALT PAVING CO.** Testimony from various sources in regard to the comparative value of "lake" and land Trinidad asphalt. N. Y., 1892. 19 pp., 9 x 6, pap.
- 37 —Trinidad asphalt sheet-pavement. N. Y., 1890. 43 pp., pl., 9 x 6, pap.
- 36 **WASHINGTON, D. C.** Report of the Commissioners created by the act authorizing the repavement of Pennsylvania Avenue. no place, 1876-77. 2 v., tab., 9 x 6, pap. no title-page.
- 42 **WOLLHEIM, ALBERT.** Asphalt-Strassen: Technische, hygienische und ökonomische Betrachtungen. Wien, 1902. 12 pp., 9 x 6, pap.

ROADS AND PAVEMENTS—BRICK.**Nf**

- 20 **ALEXANDRIA, IND.—CITY CIVIL ENGINEER.** Specifications for brick street. Broadway from Harrison Street to C., C., C. & St. L. Ry. Alexandria, 1902. 13 pp., 14 x 9, pap.
- BYRNE, A. T.** Brick pavements. 1900. (See Na-22a, p. 219.)
- 21 **JACKSON, MISS.—MAYOR.** Instructions to bidders, specifications and form of proposal for the construction of brick pavement and street improvement. no place, 1902. 11 pp., 11 x 8, pap.
- 18 **MITCHELL, A. H., comp.** Information and expert opinions as to street pavements, of great interest to the tax-payers of Avondale. Note: Relates to the advisability of using brick and asphalt for pavements. no place, 1890. 20 pp., 9 x 6, pap.

Nf—(Continued).

- TILLSON, G. W. Brick pavements. 1900. (See Na-120, p. 258.)
 UNITED STATES. Vitrified brick pavements; their use in the United States. W. P. Judson. 1902. (See Na-23a, p. 82.)
 19 WARREN-SCHARF ASPHALT PAVING CO. Brick pavements. no place, no date. 8 pp., 9 x 6, pap.

ROADS AND PAVEMENTS—ARTIFICIAL BLOCK.**Ng**

- BAILLAIRGE, C. P. F. Asphalt block. no place, no date. 8 pp., 9 x 6, b. p. no title-page. Zb-85, p. 309.

ROADS AND PAVEMENTS—STONE BLOCK.**Nh**

- BYRNE, A. T. Stone pavements. 1900. (See Na-22a, p. 99.)
 LEFEBVRE, GEORGES. Chaussées pavées en pierre. (Bibliothèque du Conducteur de Travaux Publics.) 1896. (See Na-140, p. 25.)
 TILLSON, G. W. Cobble and stone-block pavements. 1900. (See Na-120, p. 177.)

ROADS AND PAVEMENTS—WOODEN BLOCK.**Ni**

- AITKEN, THOMAS. Wooden pavements. 1900. (See Na-124, p. 323.)
 BYRNE, A. T. Wood pavements. 1900. (See Na-22a, p. 124.)
 13 KUMMER, F. A. Modern wood pavements, creosote-resinate process, including a paper on recent experiences with wood pavements, by B. T. Wheeler. N. Y., 1901. 41 pp., ill., 8 x 5, cl.
 LEFEBVRE, GEORGES. Chaussées pavées en bois. (Bibliothèque du Conducteur de Travaux Publics.) 1896. (See Na-140, p. 262.)
 12 LONDON, ENGLAND. On Australian hard woods for London pavements. W. A. Smith. Sydney, 1894. 10 pp., 10 x 6, pap.
 14 SYDNEY, N. S. W. Street-paving in Sydney. G. W. Bell. Sydney, 1895. 27 pp., pl., map, 10 x 6, pap.
 TILLSON, G. W. Wood pavements. 1900. (See Na-120, p. 298.)
 UNITED STATES. Wooden-block pavements; use in the United States. W. P. Judson. 1902. (See Na-23a, p. 66.)

O—(Continued).

c50 CLEVELAND, OHIO—(Continued).

- 3.3 City Council. Municipal law for the government of the City of Cleveland, in effect April, 1891; comp. by Howard H. Burgess. no place, 1891. 11 + 48 pp., 6 x 4, pap.
- 3.2 —Ordinances of the City of Cleveland, rev. and consolidated by John F. Weh, containing all general and special ordinances of public interest in force July 10th, 1882. Cleveland, 1882. 716 pp., 10 x 6, sh.
- 3.2a —Same; rev. and consolidated by H. L. Vail and L. M. Snyder, containing all general and special ordinances of public interest in force May 19th, 1890, and an addenda to Oct. 20th, 1890. Cleveland, 1890. 13 + 1065 pp., 10 x 7, sh.
- 3.1 —Reports of the Departments of the government of the city; together with the annual message of the Mayor; 1874-75, '82, '87, '89, '98-1900. Cleveland, 1875-1901. 8 v., maps, tab., 9 x 6, pap., $\frac{1}{4}$ ro., $\frac{1}{4}$ mor.
- 4.1 Department of Public Works. Annual report; 1898-99. Cleveland, 1899. 2 v., 9 x 6, pap.

c60 COLUMBUS, OHIO.

- 3.1 City Council. Annual reports of the various departments of the City of Columbus; together with a financial statement of the receipts and disbursements; 1898. Columbus, 1899. 1 v., 9 x 6, pap.

c65 CONCORD, N. H.

- 3.1 City Council. Annual report of the receipts and expenditures of the City of Concord; together with other annual reports and papers relating to the affairs of the city; 32d-33d; 1884-85. Concord, 1885-86. 2 v., 9 x 6, cl.

d15 DAVENPORT, IOWA.

- 2.1 City Officers. Annual reports for the year ending Mar. 1st, 1900. Davenport, 1900. 1 v., 8 x 5, pap.

d25 DENVER, COLO.

- 2.1 City Council. Laws and ordinances of the City of Denver, Colo., comprising the Constitution of the United States, Constitution of the State of Colorado, Charter of the city, and all ordinances thereof, of a general character, in force and operation at the date of this publication; rev., comp. and codified by Isham White. Denver, 1886. 778 pp., 9 x 6, mor.

d50 DOVER, N. H.

- 2.1 City Councils. Annual report of the receipts and expenditures of the City of Dover; together with department reports and papers relating to the affairs of the city; 1883-84, '89-91, '97, 1900-01. Dover, 1884-1902. 8 v., 9 x 6, pap., cl.

d60 DULUTH, MINN.

- 4.1 City Officers. Annual reports; 1900. no place, 1901. 1 v., tab., 9 x 6, pap.

e15 EASTON, PA.

- 2.1 City Engineer. Annual report; 1895. Easton, 1896. 1 v., 9 x 6, pap.
- 3.1 Mayor. Messages, Controller's statement and Department reports; 1893, '96. Easton, 1893-96. 2 v., 9 x 6, pap.

e25 ELMIRA, N. Y.

- 2.1 Common Council. Municipal reports for the fiscal year ending Feb. 6th, 1899. Elmira, 1899. 1 v., 9 x 6, pap.

e45 ERIE, PA.

- 2.1 Councils. Annual reports, for the year ending Apr., 1881. Erie, 1881. 1 v., 9 x 6, pap.

e55 EVERETT, MASS.

- 3.1 Mayor. Inaugural address; with the annual reports of the officers of the City of Everett; 1897. Everett, 1897. 1 v., 9 x 6, cl.

f10 FALL RIVER, MASS.

- 2.1 Mayor. Inaugural address and reports; 1875, '82-84, '88-89, '92, '96-97. Fall River, 1876-98. 9 v., 9 x 6, $\frac{1}{4}$ mor., cl.

f25 FITCHBURG, MASS.

- 2.1 City Engineer. Annual report; 28th-29th; 1900-01. Fitchburg, 1901-02. 2 v., pl., 9 x 6, pap.
- 3.1 Mayor. Address; together with the annual reports of the city; 1874-76, '78, '81, '84-85, '89, '96-97. Fitchburg, 1874-98. 10 v., il., 9 x 6, cl., mor.

f50 FRANKLIN, N. H.

- 2.1 City Government. Annual report; 1891-94, '99. Franklin Falls, 1891-1900. 5 v., il., 9 x 6, pap.

a1 GENERAL.

- American Society of Municipal Improvements. Proceedings of the annual convention; 1895, '97-1900. (See S33-171.1.)

O—(Continued).

a1 GENERAL—(Continued).

- 12 Baker, M. N. Municipal engineering and sanitation. N. Y., 1902. 8 + 817 pp., 8 x 5, ro.
- 11 Goodhue, W. F. Municipal improvements: A manual of the methods, utility and cost of public improvements, for the municipal officer. ed. 3, rev. and enl. N. Y., 1900. 8 + 207 pp., il., 7 x 5, cl.
Herbert, E. Comptabilité des travaux publics et tenue des bureaux des Services des Ponts et Chaussées. (Bibliothèque du Conducteur de Travaux Publics.) 1898. (See V-126.)
- 2a McCollough Ernest. Municipal public works: An elementary manual of municipal engineering. Lewiston, Idaho, 1900. 158 pp., 9 x 6, pap.
- 3 Morse, E. S. Can city life be made endurable? An address delivered at the annual commencement of the Worcester Polytechnic Institute, June 21st, 1900. no place, 1900. 16 pp., 9 x 6, pap.
- 13 Municipal year book, 1902, giving the population, assessed valuation, principal officials, and ownership of public utilities; also information regarding the water supply, sewerage, street cleaning, street sprinkling, garbage, fire and underground electric service in all incorporated places in the United States, and in all New England towns of 8 000 population and upwards by the census of 1900, with summaries and editorial discussion; ed. by M. N. Baker. N. Y., 1902. 1 v., 9 x 6, cl.

GLASGOW, SCOTLAND.

Municipal enterprises of Glasgow. Samuel Chisholm. 1901. (See Qd-114, p. 211.)

g23 GLOUCESTER, MASS.

- 2.1 Mayor. Inaugural address; with annual reports of the city; 1898. Gloucester 1899. 1 v., 9 x 6, cl.

g25 GLOVERSVILLE, N. Y.

- 2.1 Common Council. Annual reports; 1901. Gloversville, 1902. 1 v., tab., 9 x 6, pap.

g50 GRAND RAPIDS, MICH.

- 4.1 City Officers. Reports for the year ending Apr. 30th, 1900. Grand Rapids, 1900. 1 v., il., 9 x 6, pap.

h15 HARRISBURG, PA.

- 2.1 Department reports; 1893. Harrisburg, 1898. 1 v., 9 x 6, ro.

h20 HARTFORD, CONN.

- 2.1 Board of Street Commissioners. Annual report to the Court of Common Council; 12th-13th, 19th; 1883-84, '90. Hartford, 1884-91. 3 v., 9 x 6, pap.
- 3.1 Common Council. Municipal register and city year book containing lists of the officers of the City Government, also message of the Mayor and annual reports of the several departments for the municipal year ending Mar. 31st, 1884. Hartford, 1884. 1 v., il., 9 x 6, mor.

h23 HAVANA, CUBA.

- 2.1 Military Governor. Annual report; July, 1899-May, 1900. Wash., 1900. 1 v., il., pl., maps, 10 x 6, pap.
- 3.1 Report of the Chief Engineer, Division of Cuba; July, 1899-Dec., 1900. Note: These reports are v. 2 and 12 of the Annual report of Maj. Gen. Leonard Wood, commanding Division of Cuba. Havana, 1900-01. 2 v., por., pl., maps, 10 x 7, cl., pap.

h50 HOLYOKE, MASS.

- 3.1 Board of Aldermen. Municipal register, containing the Mayor's address, city government roster, annual reports, etc.; 1875-76, '86-90, '94, '96-97. Holyoke, 1875-94. 10 v., il., 9 x 6, pap., cl.

h55 HUDSON, N. Y.

- 2.1 Commission of Public Works. Report; 1899. Hudson, 1899. 1 v., 9 x 6, pap.

h60 HYDE PARK, ILL.

- 2.1 Board of Trustees. Annual message of the President and reports of the various officers and heads of departments, for the year ending Apr. 1st, 1884-86. Hyde Park, 1884-86. 3 v., 9 x 6, pap.

i35 INDIANAPOLIS, IND.

- 3.1 Mayor. Annual message, with annual reports of heads of departments of the City Government; 1893, '95. Indianapolis, 1894-96. 2 v., 9 x 6, ½ mor.

j3 JACKSONVILLE, FLA.

- 2.1 Board of Trustees for the Water-Works and Improvement Bonds. Annual report; 7th; 1901. Jacksonville, 1901. 1 v., tab., 9 x 6, pap.

j15 JERSEY CITY, N. J.

- 2.1 Board of Public Works. Annual report of Chief Engineer; 1880. Jersey City, 1881. 1 v., tab., 9 x 6, pap.

O—(Continued).**j15 JERSEY CITY, N. J.—(Continued).**

- 3.1 Common Council. Charters of and acts relating to Jersey City, and the ordinances thereof; together with some statistical information, &c. Jersey City, 1844. 92 + 80 pp., 9 x 6, pap.

j20 JOLIET, ILL.

- 2.1 City Officers. Annual reports for the year ending Apr. 30th, 1899-1901. Joliet, 1899-1901. 3 v., tab., 10 x 7, pap.

k15 KANSAS CITY, MO.

- 5.1 Board of Public Works. Annual report to the Common Council; 11th; for the fiscal year ending Apr. 16th, 1900. Kansas City, 1900. 1 v., tab., 9 x 6, pap.
4.1 City Comptroller. Semi-annual report; together with report of City Engineer, submitted to Mayor and Common Council, Sept., 1900. Kansas City, 1901. 1 v., 9 x 6, pap.

k20 KEENE, N. H.

- 2.1 City Councils. Annual report of the city; with reports of the several departments; 8th-11th, 16th, 19th, 22d-23d; 1881-84, '89, '92, '95-96. Keene, 1882-97. 8 v., 9 x 6, pap.

14 LACONIA, N. H.

- 2.1 City Council. Annual report of the receipts and expenditures of the city; 4th; for the year ending Feb., 1897. Note: Contains department reports. Laconia, 1897. 1 v., 9 x 6, cl.
3.1 Officers. Annual report for the year ending Mar. 1st, 1891. Laconia, 1891. 1 v., 9 x 6, pap.

118 LEBANON, N. H.

- 2.1. Water Commissioners. Annual report of the Water Commissioners, Chief Engineer and Treasurer of Lebanon Centre Village Fire Precinct for the year ending Apr. 1st, 1891-95, '97-99. Lebanon, 1891-99. 8 v., 9 x 6, pap.

135 LITTLE FALLS, N. Y.

- 2.1 Board of Public Works. Annual report of the Board of Public Works; 7th; and the annual report as Water Commissioners; 14th; 1901. Little Falls, 1901. 1 v., por., 9 x 6, pap.

150 LOUISVILLE, KY.

- 2.1 General Council. Annual reports; 1866-99. Louisville, 1867-1900. 34 v., il., tab., 9 x 6, cl., ¾ ro.

155 LYNCHBURG, VA.

- 2.1 City Council. Reports of the Standing Committees of the Council; together with the reports of city officers; July, 1877-78, July, '79-Jan., '87. Lynchburg, 1878-87. 9 v., 9 x 6, pap.

160 LYNN, MASS.

- 3.1 Board of Public Works. Annual reports; 1901. Lynn, 1901. 1 v., pl., 9 x 6, pap.
4.1 City Council. City documents, comprising the municipal register, inaugural address of the Mayor, and the annual reports; 1875, '90. Lynn, 1876-91. 2 v., 9 x 6, cl., pap.

m5 MALDEN, MASS.

- 3.1 Mayor. Inaugural address, with annual reports of the officers and committees; 1892, '96-97. Bost., 1892-97. 3 v., il., 9 x 6, cl.

m10 MANCHESTER, N. H.

- 3.1 City Officers. Annual report of the receipts and expenditures, together with other annual reports and papers relating to the affairs of the city; 20th, 47th, 49th, 53d-55th; 1865, '92, '94, '98-1900. Manchester, 1866-1901. 6 v., 9 x 6, pap., mor.

m15 MARLBOROUGH, MASS.

- 3.1 City Government. Annual report; 6th; 1896. Lynn, 1897. 1 v., 9 x 6, cl.

m17 MARSHALLTOWN, IOWA.

- 2.1 City Council. Annual report of the financial condition of the city, together with reports of city officers, for the year ending Mar. 9th, 1885. Marshalltown, 1885. 1 v., 8 x 6, pap.

m20 MEDFORD, MASS.

- 2.1 Mayor. Address to the City Council; the City Government; the financial statements; and the annual reports; 1892-94. Bost., 1899-95. 3 v., il., 9 x 6, pap.

m22 MELROSE, MASS.

- 2.1 Public Works Department. Annual report; 1st; for the fiscal year ending Jan. 31st, 1901. Melrose, 1901. 1 v., 9 x 6, pap.
3.1 Town Officers. Reports; 1899. Melrose, 1899. 1 v., map, tab., 9 x 6, pap.

m35 MIDDLETOWN, CONN.

- 2.1. Mayor. Annual message, and reports of the several departments of the city; 1878-79, '98-99. Middletown, 1879-99. 5 v., 9 x 6, pap.

MUNICIPAL REPORTS.

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- m40 MILWAUKEE, WIS.**
 - 4.1 Board of Public Works. Annual report; 1899-1900. Milwaukee, 1900-01. 2 v., pl., maps, tab., 9 x 6, pap.
- m45 MINNEAPOLIS, MINN.**
 - 3.1 City Engineer. Annual report; 1900-01. Minneapolis, 1901-02. 2 v., pl., maps, tab., 9 x 6, pap.
- m50 MOBILE, ALA.**
 - 2.1 City Clerk. Municipal report for the fiscal year ending Mar. 14th, 1884. Mobile, 1884. 1 v., 9 x 6, pap.
- m53 MONTGOMERY, ALA.**
 - 2.1 Mayor. Annual message, and reports of the various city officers; 1898. Montgomery, 1898. 1 v., 9 x 6, pap.
- m55 MONTREAL, QUE.**
 - 2.1 City Council. Reports on the corporation accounts; reports of the Chiefs of Departments; 1898-99. Montreal, 1900. 2 v., pl., phot., tab., 9 x 6, mor.
 - 3.1 City Surveyor. Report on the various works executed by the Road Department; 1881. Montreal, 1882. 1 v., tab., 9 x 6, pap.
- n10 NASHVILLE, TENN.**
 - 3.1 City Government. Report of departments; 1901. Nashville, 1902. 1 v., 9 x 6, pap.
- n15 NEW BEDFORD, MASS.**
 - 3.1 Mayor. Address to the City Council; City Government; and reports of committees; 1865, '68, '71-72, '75, '79-84, '86-87, '89, '95-96, '99-1900. New Bedford, 1866-1901. 18 v., 9 x 6, pap., mor.
- n16 NEW BRITAIN, CONN.**
 - 2.1 Common Council. Annual reports of the Mayor and the several departments of the city for the year ending Apr. 1st, 1885. New Britain, 1885. 1 v., 8 x 6, pap.
- n20 NEW HAVEN, CONN.**
 - 4.1 Mayor. Addresses; with annual reports of the city officers for the fiscal year ending June 30th, 1869. New Haven, 1870. 1 v., 9 x 6, pap.
- n25 NEW YORK, N. Y.**
 - 1.1 Charter for the Greater New York: Report of the Commission and acts supplementary to the charter as submitted to the State Legislature by the Commission on the Greater New York. Brooklyn, 1897. 168 pp., il., 12 x 9, pap.
 - 9.1 Commissioners of Accounts. Annual report; 28th: 1900. Note: Contains a brief history of the office. N. Y., 1901. 1 v., tab., 10 x 7, cl.
 - 2.3 Common Council. comp. Laws of the state affecting interests in the City and County of New York, passed by the Legislature; 1871, '75-89. N. Y., 1871-89. 16 v., 9 x 6, pap.
 - 1.7 Corporation Counsel. Suggestions to facilitate the preparation, revision, correction and final approval of contracts, specifications, bids, bonds, and advertisements. N. Y., 1902. 3 pp., 14 x 9, pap.
 - 8.1 Department of Public Works. Annual report; 1882, '85, '96. N. Y., 1882-97. 3 v., maps, 9 x 6, cl.
 - 8.2 —Report (quarterly); Sept., 1876; Mar., '78-Dec., '79; Dec., '81; Dec., '84; Dec., '86; Dec., '91; Dec., '94. N. Y., 1876-95. 14 v., 9 x 6, pap., cl.
 - 4.2 Fire Department. Report; 1883, '94-95. N. Y., 1884-97. 3 v., pl., tab., 9 x 6, cl.
 - 1.4 Letters in regard to the charges made by the Council of Political Reform against Hubert O. Thompson, Commissioner of Public Works. H. O. Thompson and others. no place, 1883. 32 pp., 8 x 6, pap.
 - 6.1 Metropolitan Fire Department. Annual reports of the Board of Commissioners; 3d-5th; 1867-69. N. Y., 1868-70. 3 v., pl., 9 x 6, cl., pap.
 - 7.1 Municipal Civil Service Commission. Annual report; 1st-17th; 1886-1900. N. Y., 1886-1901. 17 v. in 5, 9 x 6, sh., pap.
 - 1.16 New York City Record, containing a complete list of the Department of Public Works, Health Department, Bureau of Buildings in the Fire Department, with list of officers and employees, residences and salaries; also rules and regulations governing the same, with a complete list of the registered plumbers in the City of New York as required by law; compiled, arranged and published annually by Henry A. Beatty; 1884. N. Y., 1884. 1 v., 11 x 7, cl.
- n30 NEWARK, N. J.**
 - 3.1 Mayor. Message, and accompanying documents for the fiscal year ending May, 1894-95. Newark, 1894-95. 2 v., 9 x 6, pap.
- n32 NEWBURGH, N. Y.**
 - 2.1 Mayor. Message, City Clerk's annual report and City Treasurer's annual report for the year ending Mar. 6th, 1899. Newburgh, 1899. 1 v., 9 x 6, pap.

O—(Continued).

- n36 NEWPORT, N. H.**
 2.1 Town Officers. Reports for the year ending Feb. 15th, 1891-92, '95-98. Newport, 1891-98. 6 v., 9 x 6, pap.
- n37 NEWPORT, R. I.**
 2.1 City Council. City documents; 1857, '69-73, '75-76, '78, '83, '86. Newport, 1857-87. 11 v., 9 x 6, pap.
- n40 NEWTON, MASS.**
 2.1 City Engineer. Annual report; 1900-01. Bost., 1901-02. 2 v., pl., map, 9 x 6, pap.
 3.1 Street Department. Annual report, including sewers, street lights, park and burial grounds; 1st; 1898. Newton, 1899. 1 v., il., 9 x 6, pap.
- n50 NORTH ADAMS, MASS.**
 3.1 Mayor. Inaugural address, together with the annual reports of the officers; 1896-97. North Adams, 1897-98. 2 v., por., pl., tab., 9 x 8, $\frac{3}{4}$ ro.
- n55 NORTHAMPTON, MASS.**
 2.1 Mayor. Inaugural address, with annual reports of officers of the city; 1896-97. Northampton, 1896-97. 2 v., 9 x 6, $\frac{3}{4}$ ro.
- o30 OTTAWA, ONT.**
 4.1 City Engineer. Annual report of the City Engineer and Water-Works Committee; 1900. Ottawa, 1901. 1 v., pl., 9 x 6, pap.
 3.3 Corporation. Annual departmental reports; 1898-94, '96-99. Ottawa, 1894-1900. 6 v., pl., tab., 9 x 6, $\frac{3}{4}$ mor., pap.
- p15 PATERSON, N. J.**
 2.1 City Officers. Annual reports for the year ending Mar. 20th, 1875-84. Paterson, 1875-84. 10 v., 9 x 6, pap.
- p18 PAWTUCKET, R. I.**
 2.1 Board of Public Works. Annual report; 1901. Pawtucket, 1901. 1 v., pl., 9 x 6, pap.
- p20 PEORIA, ILL.**
 3.1 City Comptroller. Statement of the finances; together with reports of the various departments; 1900-01. Peoria, 1901-02. 2 v., 9 x 6, pap.
 4.1 Department of Public Works. Annual report; 4th-6th; 1896-97. Peoria, 1896-98. 3 v., maps, tab., 9 x 6, pap.
- p25 PHILADELPHIA, PA.**
 7.1 Bureau of Surveys. Annual report; 1900. Phil., 1901. 1 v., il., pl., tab., 9 x 6, cl.
 5.1 Department of Highways. Report of the Chief Commissioner; 1884. Phil., 1886. 1 v., 9 x 6, pap.
 6.1 Mayor. Annual message; with annual reports of the departments; 1900-01. Phil., 1901-02. 6 v., pl., maps, tab., 9 x 6, cl.
- p28 PITTSBURG, PA.**
 2.1 Department of Public Works. Annual report; 1899. Oil City, 1900. 1 v., pl., tab., 9 x 6, cl.
- p30 PITTSFIELD, MASS.**
 2.1 Reports of the Water Commissioners, Prudential Committee and Commissioners of Main Drains, etc.; 1886. Pittsfield, 1886. 1 v., 9 x 6, pap.
- p45 PORTLAND, ME.**
 2.1 Auditor. Annual report of the receipts and expenditures, with the Mayor's address and annual reports of the several departments, made to the City Council; 1858, '70. Portland, 1858-70. 2 v., tab., 9 x 6, pap.
- p46 PORTLAND, ORE.**
 2.1 Common Council. Mayor's message and municipal reports; 1891, '93-1901. Portland, 1892-1901. 10 v., 9 x 6, cl.
- p47 PORTSMOUTH, N. H.**
 2.1 City Council. Receipts and expenditures of the City of Portsmouth, also the Mayor's inaugural address, reports of city officers, Board of Instruction, vital statistics, etc.; 1891, '95. Portsmouth, 1892-95. 2 v., 9 x 6, pap.
- p50 POUGHKEEPSIE, N. Y.**
 3.1 Board of Public Works. Annual report; 1st-5th; 1896-1900. Poughkeepsie, 1897-1900. 5 v., 9 x 6, pap.
- p55 PROVIDENCE, R. I.**
 2.1 City Engineer. Annual report; 1900-01. Providence, 1901-02. 2 v., pl., maps, tab., 9 x 6, pap.
 3.1 Department of Public Works. Quarterly report; 1st-2d, 4th, 6th, 8th-13th, 19th-22d, 34th-36th, 38th-72d; Mar.-June, Dec., 1883; June, '84; Dec., '84-Mar., '86; Sept., '87-Dec., '90; June-Dec., '91; June, '92-Dec., 1900. Providence, 1883-1900. 62 v., tab., 9 x 6, pap.

O—(Continued).

QUEBEC, QUE.

Rapport de l'Ex-Ingénieur de la Cité, des travaux faits sous le Maire et le Conseil-de-Ville actuels et sous leurs prédécesseurs durant le dernier tiers de siècle, 1866 à 1899: Suggestions de certaines constructions à faire, propres à rendre la ville attrayante et prospère. C. P. F. Baillaigé. no place, no date. 6 + 90 pp., por., pl., 9 x 6, b. p. Zb-85, p. 209.

99 QUINCY, ILL.

- 2.1 Mayor. Inaugural address; together with the annual reports of the officers; 1889, '96-97, 1900. Quincy, 1890-1901. 4 v., il., tab., 9 x 6, pap., cl.

115 ROCHESTER, N. Y.

- 3.1 Department of Public Works. Annual report; 1st; 1900. Note: Prior to 1900 the functions of this department were exercised by the Executive Board. Rochester, 1901. 1 v., pl., tab., 9 x 6, pap.
- 2.1 Executive Board. Annual report of the Board, in charge of the Departments of Water Works, Fire, Highway and Street Improvements; 24th; 1899. Rochester, 1900. 1 v., pl., maps, tab., 9 x 6, pap.

120 ROCKFORD, ILL.

- 3.1 Common Council. Annual reports of the City; 1898-99. Rockford, 1899-1900. 2 v., il., map, 8 x 6, pap.

135 RUTLAND, VT.

- 2.1 City Council. Annual report; 1900. Note: Contains department reports. Rutland, 1901. 1 v., 9 x 6, pap.

125 ST. JOSEPH, MO.

- 3.1 Common Council. Municipal reports and other matters for the fiscal year ending Apr., 1896, '99. St. Joseph, 1896-99. 2 v., pl., 9 x 6, pap.

130 ST. LOUIS, MO.

- 2.1 Board of Public Improvements. Report for the fiscal year ending Apr., 1879-87. St. Louis, 1879-87. 9 v. in 2, pl., maps, tab., 9 x 6, 1/4 mor. no title-page.
- 2.1a —Same; 1877-82. St. Louis, 1878-82. 5 v. in 1, pl., tab., 9 x 6, 1/4 mor. no title-page.

135 ST. PAUL, MINN.

- 4.1 City Officers and City Boards. Annual reports; 1886, '88, '98. St. Paul, 1887-99. 3 v., pl., tab., 9 x 7, 1/4 ro., cl.

145 SALEM, MASS.

- 3.1 City Council. Annual reports of the several departments; 1852. Salem, 1853. 1 v., 9 x 6, pap.

150 SALT LAKE CITY, UTAH.

- 3.1 Mayor. Annual message; with the annual reports of the officers; 1892. Salt Lake City, 1893. 1 v., 9 x 6, pap.

155 SAN FRANCISCO, CAL.

- 2.1 Board of Supervisors. Municipal reports for the year ending June 30th, 1860, '65, '70-71, '73-75, 1900-01. San Fran., 1860-1901. 8 v., por., phot., maps, 9 x 6, mor., pap., cl.

162 SAVANNAH, GA.

- 2.1 Mayor. Annual report; to which is added the Treasurer's report and reports of the different departments; 1882-93, '95. Savannah, 1883-96. 13 v., tab., 9 x 6, pap., cl.

175 SOMERVILLE, MASS.

- 2.1 City Council. Annual reports; 1870, '73, '90-93, '95-98. Somerville, 1871-99. 10 v., il., maps, tab., 9 x 6, pap., cl.
- 6.1 —Municipal manual. Bost., 1892. 282 pp., 9 x 6, mor.
- 4.1 —Municipal register with rules and orders; 1890, '92, '96-97. Somerville, 1890-97. 4 v., 6 x 8, ro., cl.
- 5.1 Mayor. Inaugural address to the City Council; 1898. Somerville, 1898. 1 v., 9 x 6, pap.

178 SOUTH NORWALK, CONN.

- 2.1 Mayor. Message; and official reports of the officers of the city; 1898-1900. South Norwalk, 1899-1901. 3 v., 9 x 6, pap.

179 SPRINGFIELD, ILL.

- 2.1 City Council. Statement of the finances of the City of Springfield as exhibited in the annual reports of officers for the year ending Feb. 28th, 1878. Springfield, 1878. 1 v., 8 x 5, cl.
- 3.1 Officers. Report for the fiscal year ending Feb. 28th, 1899. Springfield, 1899. 1 v., 8 x 6, pap.

180 SPRINGFIELD, MASS.

- 3.1 City Council. Municipal register; 1883, '85, '90-91, '96-97, '99-1900. Springfield, 1883-1900. 8 v., il., maps, 9 x 6, cl., pap.

O—(Continued).**t10 TAUNTON, MASS.**

- 2.1 City Council. Municipal register, containing the Mayor's address and annual reports, with the city officers; 1877, '79, '82, '84, '88-89. Taunton, 1878-90. 6 v., 9 x 6, cl.

t15 TITUSVILLE, PA.

- 2.1 Mayor. Annual message; reports of City Controller and the Board of Health; 1890, '92, '95. Titusville, 1890-95. 3 v., 9 x 6, pap.

t30 TORONTO, ONT.

- 2.1 City Engineer. Annual report; 1878-81, '99-1900. Toronto, 1878-1901. 6 v., pl., tab., maps, 9 x 6, pap., cl.

t33 TRENTON, N. J.

- 2.1 Common Council. Annual report of the finances for the year ending Feb. 28th, 1874, 76-77, '84. Trenton, 1874-84. 4 v., 9 x 6, pap.

t40 TRURO, N. S.

- 3.1 Mayor. Annual reports of the several departments of town government, for the civic year ending Mar. 31st, 1886-87. Truro, 1886-87. 2 v., 9 x 6, pap.

u8 UTICA, N. Y.

- 2.1 City Surveyor. Annual report; Feb., 1898-99. Utica, 1900. 1 v., pl., tab., 9 x 6, cl.

d40 WASHINGTON, D. C.

- 2.1 Annual report for the year ending June 30th, 1896. District of Columbia-Commissioners. Wash., 1896. 1 v., pl., maps, 9 x 6, pap.

- 3.1 Annual report of the operations of the Department for the year ending June 30th, 1888, '86, '96-1902. District of Columbia-Engineer Department. Wash., 1888-1902. 7 v., pl., maps, tab., 9 x 6, pap.

w10 WATERBURY, CONN.

- 2.1 City Engineer. Annual report; 1898-99. Waterbury, 1898-1900. 5 v., tab., 9 x 6, pap.

w36 WINNIPEG, MAN.

- 2.1 City Engineer. Annual report; 1901. Winnipeg, 1902. 1 v., il., pl., 9 x 6, pap.

w38 WOBURN, MASS.

- 2.1 Board of Public Works. Annual report; 1898-1901. Marlborough, 1899-1901. 4 v., 9 x 6, pap.

- 3.1 City Government. Annual report; 1878-79, '95-97. Woburn, 1878-98. 5 v., 9 x 6, pap., cl.

w39 WOLFEBORO, N. H.

- 2.1 Town Officers. Annual reports of the Selectmen, Surveyors of Highways, Board of Health, Treasurer, Superintendent, and Treasurer of Water-Works, for the fiscal year ending Feb. 15th, 1901. Wolfeboro, 1901. 1 v., 9 x 6, pap.

w40 WORCESTER, MASS.

- 2.1 Mayor. Inaugural address of the Mayor; with the annual reports of the several departments; 1888-89, '95-96. Worcester, 1888-96. 4 v., tab., 9 x 6, mor.

LANDSCAPE ARCHITECTURE.

P

- ADIRONDACK PARK, N. Y.** Map of the Adirondack Forest and adjoining territory; compiled from the official maps and field notes on file in the State Departments at Albany, N. Y. New York State-Fisheries, Game and Forest Commission. 1900. (See Qf-301.)
- ALLEGHENY, PA.** Annual report of the Councils; 1875-76, '81-83, '87, '98. (See Oa20-2.1.)
- 106 **BALTIMORE, MD.** Annual report of the Public Park Commission to the Mayor and City Council; 35th; 1894. Note: For Annual reports, 1895-97, see Ob5-3.1. Balt., 1895. 1 v., map, 9 x 6, cl.
- 19 **BOSTON, MASS.** Annual report of the Board of Commissioners of Parks; 26th-27th; 1900-01. Bost., 1901-02. 2 v., pl., map, tab., 9 x 6, pap.
- 71 —History and description of the Boston Metropolitan Parks. Mass.-Board of Metropolitan Park Commissioners. Bost., 1900. 96 pp., 8 pl., map, 9 x 6, pap.
- 18 —Report; 8th-9th; 1900-01. Mass.-Board of Metropolitan Park Commissioners. Bost., 1900-01. 2 v., 9 x 6, cl.
- 16 **BROOKLYN, N. Y.** Annual report of the Department of Parks; 5th, 7th, 15th-19th, 21st, 23d-25th, 27th; 1864, '66, '74-79, '81, '88-85, '87. Brooklyn, 1864-88. 12 v. in 7, il., pl., 9 x 6, pap., cl., $\frac{3}{4}$ ro.
- 22 **BUFFALO, N. Y.** Annual report of the Park Commissioners; 23d, 25th-26th; 1892, '94-95. Buffalo, 1893-95. 3 v., il., 9 x 6, pap.
- 95 —Projected park and parkways on the south side of Buffalo: Two reports by the Landscape Architects. Park Commission. no place, 1888. 49 pp., il., map, 9 x 6, pap.
- CAMBRIDGE, MASS.** Report of the Board of Park Commissioners; 1896, '98-99. (See Oc5-3.1.)
- 15 **CHICAGO, ILL.** Report to the Board of County Commissioners of Cook County; 1890. South Park Commissioners. Chic., 1891. 1 v., 9 x 6, pap.
- CINCINNATI, OHIO.** Report of the Park Department; 1897. (See Oc45-2.1.)
- FITCHBURG, MASS.** Annual report of the Park Commissioners; 1896-97. (See Of25-3.1.)
- GENERAL.**
- BYRNE, A. T.** City streets. 1900. (See Na-22a, p. 500.)
- 92 **LEFEBVRE, GEORGES.** Service municipal; plantations d'alignement, promenades, parcs et jardins publics. (Bibliothèque du Conducteur de Travaux Publics.) Paris, 1897. 8 + 857 pp., il., 8 x 5, ro.
- 108 **ROBINSON, C. M.** Improvement of towns and cities; or, The practical basis of civic æsthetics. N. Y., 1901. 12 + 309 pp., 7 x 5, cl.
- HARTFORD, CONN.** Report of the Board of Park Commissioners; 1884. (See Oh20-3.1.)
- 107 **LYNN, MASS.** Annual report of the Park Commissioners; 3rd-4th; 1891-92. Note: For Annual report, 1890, see Ol60-4.1. Lynn, 1892-93. 2 v., il., 9 x 6, pap.
- MALDEN, MASS.** Report of the Park Commissioners; 1896-97. (See Om5-3.1.)
- MANCHESTER, N. H.** Report of the Street and Park Commissioners; 1892, '94, '98-1900. (See Om10-3.1.)
- MEDFORD, MASS.** Report of the Park Commissioners; 1894. (See Om20-2.1.)
- MELROSE, MASS.** Annual report of the Public Works Department for the fiscal year ending Jan. 31st, 1901. (See Om22-2.1.)
- NEW BEDFORD, MASS.** Annual report of the Department of Parks; 1895-96, '99-1900. (See On15-3.1.)
- 20 **NEW YORK CITY.** Annual report of the Board of Commissioners of the Central Park; 4th, 6th, 8th; 1860, '62, '64. Note: For Annual report, 1857, see P-20a. N. Y., 1861-65. 3 v., pl., maps, 9 x 6, cl.
- 105 —Annual report of the Department of Parks; 1899. N. Y., 1900. 1 v., 9 x 6, pap.
- 29 —Answer of the Department of Public Parks to the charges made by President Coleman of the Tax Commission, concerning the administration of the Department. no place, 1887. 23 pp., 9 x 6, pap. no title-page.

P—(Continued).

- 20a —Documents of the Board of Commissioners of the Central Park for the year ending Apr. 30th, 1858. N. Y., 1858. 1 v., 9 x 6, $\frac{1}{4}$ ro.
- 98 —Minutes of meetings of the Department of Public Parks; May, 1886–Apr., '90. Note: All volumes incomplete. N. Y., 1886–90. 4 v., 9 x 6, unbound.
- 99 —Opinion received from the Counsel to the Corporation respecting the records in the matter of the laying out and opening of One Hundred and Fortieth Street, from Boston Road (now Third Avenue) to Willis Avenue. Department of Public Parks. (Doc. No. 109.) N. Y., 1887. 4 pp., 9 x 6, pap.
- 94 —Report of the Special Committee on Parks relative to laying out a new park in the upper part of the city. N. Y., 1858. pp. 1459–1488, maps, tab., 10 x 6, pap.
- 87 **NIAGARA FALLS RESERVATION.** Annual report of the Commissioners of the State Reservation at Niagara; 1st–11th, 17th; for the fiscal year ended Sept. 30th, 1884–94, 1900. Albany, 1885–1901. 12 v. in 13, pl., maps, 9 x 6, pap.
- 21 **PHILADELPHIA, PA.** Annual report of the Commissioners of Fairmount Park; 1st; 1868. Phil., 1869. 1 v., maps, 10 x 6, pap.
- 104 **PORTLAND, ORE.** Report of the Board of Park Commissioners; 1901. Portland, 1901. 1 v., il., 9 x 6, pap.
- QUINCY, ILL.** Report of the Park Commissioners; 1899, '96–97, 1900. (See Oq9–2.1.)
- ST. JOSEPH, MO.** Annual report of the Park Commissioners for the fiscal year ending Apr., 1896, '99. (See Os25–3.1.)
- ST. PAUL, MINN.** Annual report of the Board of Park Commissioners; 1888, '96. (See Os35–4.1.)
- SAN FRANCISCO, CAL.** Municipal reports for the year ending June 30th, 1860, '65, '70–71, '73–75, 1900–01. Board of Supervisors. (See Os55–2.1.)
- SPRINGFIELD, MASS.** Annual report of the Board of Park Commissioners; 1884, '89–90, '95–96, '98–99. (See Os80–3.1.)
- 96 **UNITED STATES—CORPS OF ENGINEERS.** Specifications, etc., for clearing, excavating, sodding, etc., at various places. Seattle, Bost., 1900–02. 2 v., 14 x 8, pap. no title-page.
- WASHINGTON, D. C.** Annual reports of the operations of the Engineer Department of the District of Columbia; 1883, '86, '96–1902. (See Od40–3.1.)
- 90 **WEST CHICAGO, ILL.** Report of Robt. McChesney, Expert, employed by a committee of West Chicago Town Board to investigate affairs of West Chicago Park Commissioner's office. Chic., 1877. 56 pp., 9 x 6, pap.
- 75 **WILMINGTON, DEL.** Report of the Board of Park Commissioners; 1900–01. Wilmington, 1901–02. 2 v., pl., 9 x 6, pap.
- WOBBURN, MASS.** Report of the Park Commissioners; 1895–97. (See Ow38–3.1.)
- WORCESTER, MASS.** Annual report of the Parks-Commission; 1888–89, '95–96. (See Ow40–2.1.)

GEOGRAPHY.

GEOGRAPHY—GENERAL.

Qa

- AMERICAN GEOGRAPHICAL SOCIETY.** Journal; 1890 (v. 22). Note: Incomplete. N. Y., 1890. 1 v., 9 x 7, b. p. Za-37, p. 91.
- BAKER, MARCUS.** Alaskan geographic names. (U. S. Geological Survey.) 1901. (See Yh-40, Annual report, 1899-1900, Pt. 2., p. 487.)
- Geographic dictionary of Alaska. (U. S. Geological Survey. Bulletin No. 187.) 1901. (See Yh-87.)
- GANNETT, HENRY.** Gazetteer of Cuba. (U. S. Geological Survey. Bulletin No. 192.) 1902. (See Yh-87.)
- Gazetteer of Porto Rico. (U. S. Geological Survey. Bulletin No. 183.) 1901. (See Yh-87.)
- Gazetteer of Texas. (U. S. Geological Survey. Bulletin No. 190.) 1902. (See Yh-87.)
- Gazetteer of Utah. (U. S. Geological Survey. Bulletin No. 166.) 1900. (See Yh-87.)
- 1 **UNITED STATES—BOARD ON GEOGRAPHIC NAMES.** Report; 2d; 1890-99. ed. 2. Wash., 1901. 1 v., 9 x 6, cl.
- 5 —Special report relating to the geographic names in the Philippine Islands. Wash., 1901. 59 pp., 9 x 6, pap.

GEOGRAPHY—PHYSICAL.

Qb

- ALABAMA.** Hydrography of the Southern Appalachian Mountain region. H. A. Pressey. (U. S. Geological Survey. Water Supply and Irrigation Papers.) 1902. (See De-81, Nos. 62-63.)
- ALASKA.** Map of Alaska showing known gold-bearing rocks, with descriptive text containing sketches of the geography, geology and gold deposits and routes to the gold fields. U. S.-Geological Survey. 1898. (See Yh-191.)
- Preliminary report on the Cape Nome gold region, Alaska; by Frank C. Schrader and Alfred H. Brooks. U. S.-Geological Survey. 1900. (See Yh-170.)
- Reconnaissances in the Cape Nome and Norton Bay regions, Alaska, in 1900; by Alfred H. Brooks, George B. Richardson, Arthur J. Collier and Walter C. Mendenhall. U. S.-Geological Survey. 1901. (See Yh-220.)
- ALPS MOUNTAINS.** Eintheilung der Ostalpen. August Böhm. 1887. (See Qb-17, v. 1, Pt. 3.)
- Friedrich Simony; Leben und Wirken eines Alpenforschers; ein Beitrag zur Geschichte der Geographie in Österreich. Albrecht Penck. 1898. (See Qb-17, v. 6, Pt. 3.)
- AUSTRIA.** Die Seen am Reschen-Scheideck; eine limnologische Studie. Johann Müllner. 1900. (See Qb-17, v. 7, Pt. 1.)
- Die Seen des Salzkammergutes, und die österreichische Traun; Erläuterungen zur ersten Lieferung des österreichischen Seenatlases. Johann Müllner. 1896. (See Qb-17, v. 6, Pt. 1.)
- Die Vergletscherung des Salzachgebietes, nebst Beobachtungen über die Eiszeit in der Schweiz. Eduard Brückner. 1886. (See Qb-17, v. 1, Pt. 1.)
- Friedrich Simony; Leben und Wirken eines Alpenforschers; ein Beitrag zur Geschichte der Geographie in Österreich. Albrecht Penck. 1898. (See Qb-17, v. 6, Pt. 3.)
- Seestudien; Erläuterungen zur zweiten Lieferung des Atlas der österreichischen Alpenseen. Eduard Richter. 1897. (See Qb-17, v. 6, Pt. 2.)
- BLACK FOREST.** Orometrie des Schwarzwaldes. Ludwig Neumann. 1886. (See Qb-17, v. 1, Pt. 2.)
- CALIFORNIA.** Earthquakes in California in 1898. C. D. Perrine. (U. S. Geological Survey. Bulletin No. 161.) 1899. (See Yh-87.)

Qb—(Continued).

- COLORADO.** Its resorts and attractions to the pleasure-seeker, tourist and invalid. Kansas Pacific Ry. Co. no place, 1873. 32 pp., 9 x 6, b. p. Af-300, p. 613.
- EUROPE.** Die Schwankungen des Grundwassers, mit besonderer Berücksichtigung der mitteleuropäischen Verhältnisse. Isidor Soyka. 1888. (See Qb-17, v. 2, Pt. 3.)
- Die Vertheilung des Luftdruckes über Mittel- und Süd-Europa. Julius Hann. 1887. (See Qb-17, v. 2, Pt. 2.)
- FINSTERAARHORN MOUNTAINS.** Die Höhe der Schneegrenze mit besonderer Berücksichtigung der Finsteraarhorn-Gruppe. Ludwig Kurowski. 1891. (See Qb-17, v. 5, p. 115.)
- GENERAL.**
- 7 **HALE, G. W.** Earthquakes, their origin and phenomena. no place, 1902. 22 pp., 9 x 6, pap.
- 17 **PENCK, ALBRECHT**, ed. Geographische Abhandlungen. Contents: v. 1, Pt. 1. Die Vergletscherung des Salzachgebietes; von Eduard Brückner. Pt. 2. Orometrie des Schwarzwaldes; von Ludwig Neumann. Pt. 3. Eintheilung der Ostalpen; von August Böhm. v. 2, Pt. 1. Die Pamir-Gebiete; von Wilhelm Geiger. Pt. 2. Die Vertheilung des Luftdruckes über Mittel- und Süd-Europa; von Julius Hann. Pt. 3. Die Schwankungen des Grundwassers; von Isidor Soyka. v. 3, Pt. 1. Die Cordillere von Mérida; von W. Sievers. Pt. 2. Johannes Kepler und der tellurisch-kosmische Magnetismus; von Siegmund Günther. Pt. 3. Der Einfluss einer Schneedecke auf Boden, Klima und Wetter; von Alexander Woeikof. v. 4, Pt. 1. Die physische Erdkunde im christlichen Mittelalter; von Konrad Kretschmer. Pt. 2. Klimaschwankungen seit 1700; von Eduard Brückner. v. 5, Pt. 1. Arbeiten des geographischen Institutes der Königlichen Kaiserlichen Universität Wien. Pt. 2. Philipp Clüver; von J. Partsch. Pt. 3. Das Karstphänomen; von Jovan Cvijic. Pt. 4. Die Temperatur fließender Gewässer Mitteleuropas; von A. E. Forster. Pt. 5. Die Abfluss- und Niederschlagsverhältnisse von Böhmen; von Vasa Ruvarac. Untersuchungen über Verdunstung und Abfluss von grösseren Landflächen; von Albrecht Penck. v. 6, Pt. 1. Die Seen des Salzkammergutes und die österreichische Traun; von Johann Müllner. Pt. 2. Seestudien; von Eduard Richter. Pt. 3. Friedrich Simony; von Albrecht Penck. v. 7, Pt. 1. Die Seen am Reschen-Scheideck; von Johann Müllner. Wien, 1886-1900. 7 v. in 14, il., pl., maps, tab., 11 x 7, pap.
- GEORGIA.** Hydrography of the Southern Appalachian Mountain region. H. A. Pressey. (U. S. Geological Survey. Water Supply and Irrigation Papers.) 1902. (See De-81, Nos. 62-63.)
- 18 **JAPAN.** Publications of the Imperial Earthquake Investigating Committee, in foreign languages; Nos. 3-6, 9. Tokyo, 1900-02. 5 v., il., pl., maps, tab., 10 x 7, pap.
- MARYLAND.** General report on the physiography of Maryland. Cleveland Abbe, Jr. 1899. (See Yj-95, v. 1, p. 39.)
- Special publication of the Geological Survey; v. 1, Pts. 1-4; v. 4, Pt. 2. Contents: v. 1, Pts. 1-3. Physical features of Maryland; by W. B. Clark. v. 1, Pt. 4. Bibliography and cartography of Maryland; by E. B. Mathews. v. 4, Pt. 2. Second report on the highways of Maryland with especial reference to the operations of the Highway Division during 1900 and 1901; by H. F. Reid and A. N. Johnson. 1897-1902. (See Yh-218.)
- NEW JERSEY.** Physical geography of New Jersey, with apx. by Cornelius Clarkson Vermeule. R. D. Salisbury. 1898. (See Yh-25, v. 4.)
- NEW ZEALAND.** Hot lakes wonderland: A pictorial guide to the thermal phenomena of New Zealand. no date. (See Qd-94.)
- NICARAGUA.** Hydrography of Nicaragua. A. P. Davis. (U. S. Geological Survey.) 1903. (See Yh-40, Annual report, 1898-99, Pt. 4, p. 563.)
- NORTH CAROLINA.** Hydrography of the Southern Appalachian Mountain region. H. A. Pressey. (U. S. Geological Survey. Water Supply and Irrigation Papers.) 1902. (See De-81, Nos. 62-63.)
- QUEBEC, QUE.** Land slide of 1889: fr. Transactions of the Canadian Society of Civil Engineers. v. 7, P. 1. C. P. F. Baillairgé. Montreal, 1893. 13 pp., pl., 9 x 6, b. p. Zb-85, p. 65.
- 6 **SOUTH AMERICA.** An outline of its physical geography. G. E. Church. no place, 1901. 77 pp., il., maps, 9 x 6, pap.
- SOUTH CAROLINA.** Hydrography of the Southern Appalachian Mountain region. H. A. Pressey. (U. S. Geological Survey. Water Supply and Irrigation Papers.) 1902. (See De-81, Nos. 62-63.)
- SWITZERLAND.** Die Vergletscherung des Salzachgebietes, nebst Beobachtungen über die Eiszeit in der Schweiz. Eduard Brückner. 1883. (See Qb-17, v. 1, Pt. 1.)
- TENNESSEE.** Hydrography of the Southern Appalachian Mountain region. H. A. Pressey. (U. S. Geological Survey. Water Supply and Irrigation Papers.) 1902. (See De-81, Nos. 62-63.)

Qb—(Continued).

- TEXAS.** Geography and geology of the Black and Grand Prairies, Tex., with detailed descriptions of the cretaceous formations and special reference to artesian wells. R. T. Hill. (U. S. Geological Survey.) 1901. (See Yh-40, Annual report, 1899-1900, Pt. 7.)
- TURKESTAN.** Die Pamir-Gebiete. Wilhelm Geiger. 1887. (See Qb-17, v. 2, Pt. 1.)
- UNITED STATES.** Profiles of rivers in the United States. Henry Gannett. (U. S. Geological Survey. Water Supply and Irrigation Papers.) 1901. (See De-81, No. 44.)
- VENEZUELA.** Die Cordillere von Mérida nebst Bemerkungen über das Karibische Gebirge. W. Sievers. 1888. (See Qb-17, v. 3, Pt. 1.)
- VIRGINIA.** Hydrography of the Southern Appalachian Mountain region. H. A. Pressey. (U. S. Geological Survey. Water Supply and Irrigation Papers.) 1902. (See De-81, Nos. 62-63.)

GEOGRAPHY—STATISTICS.**Qc**

- 42 **AUSTRALASIA.** Statistical account of the seven colonies of Australasia; 1899-1900. New South Wales-Government Statistician. Sydney, 1900. 1 v., map, 9 x 6, bds.
- 38 — Statistics of the seven colonies of Australasia, 1861 to 1899. New South Wales-Government Statistician. Sydney, 1900. 6 + 72 pp., 9 x 5, pap.
- 54 **CANADA—DEPARTMENT OF AGRICULTURE.** Statistical year-book of Canada; 1900. Ottawa, 1901. 1 v., tab., 9 x 6, pap.
- 52 **INDIANA—DEPARTMENT OF STATISTICS.** Report; 5th-6th, 9th-10th; 1888-84, '89-92. Note: Reports, 1883-84 issued annually; subsequent reports issued biennially. Indianapolis, 1884-92. 4 v., 9 x 6, cl.
- 41 **IOWA—CENSUS BOARD.** Census of Iowa, as returned in the years 1865, '75, '85. Des Moines, 1865-85. 3 v., pl., tab., 8 x 6, pap., ¼ sh., cl.
- 30 **MASSACHUSETTS—CENSUS, 1895.** Reports. Contents: v. 1-4, Population and social statistics. v. 5, Manufactures. v. 6, Fisheries, commerce and agriculture. v. 7, Social statistics and general summaries. Bost., 1896-1900. 7 v., 10 x 6, cl.
- 36 **MINNESOTA—COMMISSIONER OF STATISTICS.** Annual report; 11th, 14th, 16th; 1879, '82, '84. St. Paul, 1880-85. 3 v., 9 x 6, pap., cl.
- 53 — Minnesota; its progress and capabilities. St. Paul, 1862. 126 pp., il., 9 x 6, pap.
- MONTANA—BUREAU OF AGRICULTURE, LABOR AND INDUSTRY.** Report; 1894, '98-1900. (See Zj-208.)
- NEW ZEALAND—REGISTRAR-GENERAL.** New Zealand official year-book; 1899. (See Qd-95.)
- NORWAY—KONGELIGE TOLDKOMMISSION.** Statistik over Norges fabrikanlaeg; 1875. (See Zi-11.)
- OHIO—SECRETARY OF STATE.** Statistical report; 1869-70. (See Zj-5.)
- 47 **PENNSYLVANIA—BUREAU OF STATISTICS OF LABOR AND AGRICULTURE.** Annual report; 1st; 1872-73. Note: Includes general statistics of the State of Pennsylvania. Harrisburg, 1874. 1 v., pl., tab., 10 x 7, cl.
- 37 **UNITED STATES—BUREAU OF STATISTICS (TREASURY DEPT.).** Statistical abstract of the United States; finance, coinage, commerce, immigration, shipping, the postal service, population, railroads, agriculture, coal and iron, etc.; Nos. 1-2, 11, 23-24; 1878-79, '83, 1900-01. Wash., 1879-1902. 5 v., tab., 9 x 6, pap.
- 9.5 **UNITED STATES—CENSUS, 9th, 1870.** Statistics of the wealth and industry of the United States, embracing the tables of wealth, taxation, and public indebtedness, of agriculture, manufactures, mining and the fisheries; comp. by Francis A. Walker. Wash., 1872. 5 + 843 pp., maps, 12 x 9, sh.
- 9.4 — Vital statistics of the United States, embracing the tables of deaths, births, sex, and age, to which are added the statistics of the blind, the deaf, the dumb, the insane and idiotic; comp. by Francis A. Walker. Wash., 1872. 23 + 679 pp., map, 12 x 9, sh.
- 12.1 **UNITED STATES—CENSUS, 12th, 1900.** Census act of March 3d, 1899, providing for the Twelfth and subsequent censuses, with amendatory acts, and legislative provisions of other bills. Wash., 1900. 27 pp., 10 x 8, pap.

GEOGRAPHY—RESOURCES.**Qd**

- ALASKA.** Preliminary report on the Cape Nome gold region, Alaska; by Frank C. Schrader and Alfred H. Brooks. U. S.-Geological Survey. 1900. (See Yh-170.)

Qd—(Continued).

- Reconnaissance from Pyramid Harbor to Eagle City, Alaska, including a description of the copper deposits of the Upper White and Tanana Rivers. A. H. Brooks. (U. S.—Geological Survey.) 1901. (See Yh-40, Annual report, 1899-1900, Pt. 2, p. 331.)
- Reconnaissances in the Cape Nome and Norton Bay regions, Alaska, in 1900; by Alfred H. Brooks, George B. Richardson, Arthur J. Collier and Walter C. Mendenhall. U. S.—Geological Survey. 1901. (See Yh-220.)
- APPLETON, WIS.** Illustrated annual review of the *Appleton Post*, devoted to the City of Appleton, Wis., its water power and industries; also an historical sketch of Fox River Valley. A. J. Reid, comp. Appleton, 1879. 74 pp., il., 9 x 6, b. p. Za-39, p. 71.
- AUSTRALASIA.** Statistical account of the seven colonies of Australasia; 1899-1900. New South Wales—Government Statistician. (See Qc-42.)
- BUFFALO, N. Y.** Some things in and about Buffalo: A souvenir of the annual convention of the American Society of Civil Engineers held at Buffalo, N. Y., June 10th-18th, 1884. Buffalo Merchants' Exchange. 1884. (See Sa3-1.18.)
- 86 **CANADA.** Report of the Select Standing Committee on Immigration and Colonization. Note: Report on the agricultural and mineral resources of the country. Ottawa, 1883. 114 pp., 10 x 7, pap.
- 87 **CHARLESTON, W. VA.** Century chronicle; devoted to the capital city, its history, resources and natural advantages. Chamber of Commerce. no place, 1901. 135 pp., il., map, 9 x 6, pap.
- 100 **CHILE.** A few remarks on the Republic of Chile; her territory and inhabitants, her peculiar characteristics as a nation, her institutions, finances, industries and commerce, her natural resources; importance of Chile's exhibition at the Pan-American Exposition. J. P. Canto. Buffalo, 1901. 38 pp., il., pl., 9 x 6, pap.
- 113 —Brief notes on Chile and general catalogue of Chile exhibits. Chile-Pan-American Exposition Commission. Buffalo, 1901. 252 pp., pl., 11 x 7, pap.
- 102 —Notes on the condition of Chile for the installation of iron metallurgy. Charles Vattier. Buffalo, 1901. 23 pp., 9 x 6, pap.
- 112 —Vistas de Chile. no place, no date. 3 v., pl., 12 x 9, mor.
- CLEVELAND, OHIO.** Visitors' directory to the engineering works and industries of Cleveland, Ohio. Civil Engineers' Club of Cleveland. 1893. (See Sa3-131.3.)
- COLORADO.** Its resorts and attractions to the pleasure-seeker, tourist and invalid. Kansas Pacific Ry. Co. no place, 1873. 32 pp., 9 x 6, b. p. Af-300, p. 613.
- 83 **CUBA.** List of books relating to Cuba, including references to collected works and periodicals, by A. P. C. Griffin, Assistant Librarian of Congress; with bibliography of maps, by P. Lee Phillips, Superintendent. Maps and Charts Department. U. S.—Library of Congress. (55th Cong., 2d Sess. Senate doc. No. 161.) Wash., 1898. 61 pp., 9 x 6, pap.
- DECATUR, ILL.** Manufacturing and mercantile resources of the City of Decatur: An industrial, historical and statistical review. E. N. Baker Publishing Co. Decatur, 1887. 72 pp., il., 9 x 6, b. p. Af-301, p. 181.
- 103 **DUVAL COUNTY, FLA.** Showing its statistics, resources, lands, products, climate and population. County Commissioners. Jacksonville, 1885. 32 pp., il., map, tab., 8 x 6, pap.
- 114 **GLASGOW, SCOTLAND.** Local industries of Glasgow and the West of Scotland. Angus McLean, ed. Glasgow. 1901. 288 pp., pl., 9 x 6, cl.
- INDIANA.** Mineral, manufacturing and agricultural resources. E. T. Cox. Indianapolis, 1873. 16 pp., map, 9 x 6, b. p. Af-297, p. 77.
- Mineral wealth and railroad development: A series of letters. J. W. Foster. N. Y., 1872. 60 pp., map, tab., 9 x 6, b. p. Za-36, p. 1.
- KENTUCKY.** An address delivered at the annual commencement of the Agricultural and Mechanical College of Kentucky, at Lexington, June 2d, 1887. J. P. Knott. N. Y., 1887. 16 pp., 9 x 6, b. p. Af-301, p. 253.
- KIEL, GERMANY.** Stadt Kiel Ingenieur-Technisches aus der städtischen Verwaltung. Verein Deutscher Ingenieure. 1901. (See Sd5-3.4.)
- MILWAUKEE, WIS.** Souvenir of the twentieth annual convention of the Society held in the City of Milwaukee, June 27th to July 3d, 1888. American Society of Civil Engineers. 1888. (See Sa3-1.19.)
- MINNESOTA.** Its progress and capabilities. Commissioner of Statistics. 1862. (See Qc-53.)
- 85 **MONTANA.** And its magnificent resources, 1898. Bureau of Agriculture, Labor and Industry. Helena, 1899. 120 pp., il., 10 x 7, pap.
- 84 **MONTREAL, QUE.** Montreal in 1856: A sketch prepared for the celebration of the opening of the Grand Trunk Ry. of Canada, by a Sub-Committee of the Celebration Committee. B. Chamberlain and others. Note: A review of the trade, commerce and manufactures of Montreal. Montreal, 1856. 51 pp., pl., 10 x 7, pap.

Qd—(Continued).

- 94 **NEW ZEALAND.** Hot lakes wonderland: A pictorial guide to the thermal phenomena of New Zealand. Auckland, no date. 113 pp., il., 8 x 11, pap.
- 95 —Official year-book; 8th: 1899. Registrar-General. Wellington, 1899. 1 v., il., pl., maps, tab., 9 x 6, bds.
- 82 —Tours and excursions: Rotorua tour. no place, no date. 73 pp., il., maps, 7 x 4, pap. no title-page.
- 105 **ONONDAGA COUNTY, N. Y.** Resources of Onondaga County: A complete review of the manufacturing and jobbing interests of Syracuse; historical sketches, statistics of State production, the city's elements of wealth and advantages as a business center. Empire Publishing Co., comp. Syracuse, 1883. 216 pp., il., 10 x 7, pap.
- 97 **PERU.** El Departamento de Ancachs y sus riquezas minerales. Antonio Raimondi. Lima, 1873. 651 pp., map, 11 x 8, ¾ ro.
- 96 —El Perú; v. 1. Antonio Raimondi. Lima, 1874. 1 v., il., 11 x 8, ¾ ro.
- 101 **PHILIPPINE ISLANDS.** Letter from the Secretary of War, transmitting an article on the people of the Philippines, comp. in the Division of Insular Affairs. U. S.-War Department. (56th Cong., 2d Sess. Senate doc. No. 218.) Wash., 1901. 76 pp., 9 x 6, pap.
- Message from the President of the United States transmitting a report of the Secretary of War, containing the reports of the Taft Commission, its several acts of legislation, and other important information relating to the conditions and immediate wants of the Philippine Islands. 1901. (See Zj-202.)
- 105 **SYRACUSE, N. Y.** Resources of Onondaga County: A complete review of the manufacturing and jobbing interests of Syracuse; historical sketches, statistics of State production, the city's elements of wealth and advantages as a business center. Empire Publishing Co., comp. Syracuse, 1883. 216 pp., il., 10 x 7, pap.
- 106 **TUCSON, ARIZ.** Rochester Ford. no place, 1902. 16 pp., il., pl., 10 x 7, pap.
- 115 **UNITED STATES.** Empire of the South: An exposition of the present resources and development of the South. Frank Presbrey. N. Y., 1899. 181 pp., il., map, 11 x 9, pap.
- 98 —The New South: A description of the Southern States, noting each State separately, and giving their distinctive features and most salient characteristics. M. B. Hillyard. Balt., 1887. 413 pp., il., 9 x 6, cl.
- Trans-Missouri stock raising; the pasture lands of North America; winter grazing; the sources of the future beef and wool supply of the United States: A description of the vast region lying between the Arkansas on the south, the British possessions on the north, the One Hundredth Meridian on the east and the summit of the Rocky Mountains on the west. H. Latham. Omaha, 1871. 88 pp., map, 9 x 6, b. p. Za-36, p. 319.
- VENEZUELA.** Die Cordillere von Mérida nebst Bemerkungen über das Karibische Gebirge. W. Sievers. 1888. (See Qb-17, v. 3, Pt. 1.)
- 99 **WASHINGTON.** Agricultural, manufacturing and commercial resources and capabilities of Washington, 1901. Washington-Bureau of Statistics, Agriculture and Immigration. Olympia, 1901. 255 pp., pl., maps, 9 x 6, pap.
- Resources and development of Washington Territory: Message and report to the Legislative Assembly, Session 1885-6. Washington-Governor. Seattle, 1886. 72 pp., map, tab., 9 x 6, b. p. Ab-456, p. 147.
- 104 **YUKON DISTRICT, CANADA.** Report respecting the Yukon District: by Major J. M. Walsh, Commissioner. Canada-Department of Interior. Ottawa, 1898. 23 pp., 10 x 6, pap.

GEOGRAPHY—SURVEYS.**Qe**

- ALASKA.** Altitudes in Alaska. Henry Gannett, comp. (U. S. Geological Survey. Bulletin No. 169.) 1900. (See Yh-87.)
- Explorations in Alaska in 1898. U. S.-Geological Survey. 1900. (See Yh-40, Annual report, 1898-99, Pt. 7.)
- Preliminary report on a reconnaissance along the Chandler and Koyukuk Rivers, Alaska, in 1899. F. C. Schrader. (U. S. Geological Survey.) 1901. (See Yh-40, Annual report, 1899-1900, Pt. 2, p. 441.)
- Preliminary report on the Cape Nome gold region, Alaska; by Frank C. Schrader and Alfred H. Brooks. U. S.-Geological Survey. 1900. (See Yh-170.)
- Reconnaissance from Pyramid Harbor to Eagle City, Alaska, including a description of the copper deposits of the Upper White and Tanana Rivers. A. H. Brooks. (U. S. Geological Survey.) 1901. (See Yh-40, Annual report, 1899-1900, Pt. 2, p. 331.)
- Reconnaissance of the Chitina River and the Skolai Mountains, Alaska. Oscar Rohn. (U. S. Geological Survey.) 1901. (See Yh-40, Annual report, 1899-1900, Pt. 2, p. 393.)

Qe—(Continued).

- Reconnaissances in the Cape Nome and Norton Bay regions, Alaska, in 1900; by Alfred H. Brooks, George B. Richardson, Arthur J. Collier and Walter C. Mendenhall. U. S.—Geological Survey. 1901. (See Yh-220.)
- BALTIMORE, MD.** Report of the Topographical Survey to the Mayor and City Council of Baltimore; 1895. (See Ob5-3.1.)
- 119 **BATTLE RIVER, CANADA.** Exploration on the Battle River. H. G. Tyrrell. no place, no date. 12 pp., 10 x 7, pap.
- BLACK FOREST.** Orometrie des Schwarzwaldes. Ludwig Neumann. 1886. (See Qb-17, v. 1, Pt. 2.)
- CALIFORNIA.** Oblique boundary line between California and Nevada. C. H. Sinclair. 1901. (See Qe-80, Report, 1900, p. 255.)
- CANADA.** General report on irrigation and Canadian irrigation surveys; 1894-98. Department of the Interior. (See De-140.)
- 120 **CONNECTICUT.** Report of the Connecticut Commissioners on the boundary line between Rhode Island and Connecticut, Jan., 1888. Middletown, 1888. 41 pp., map, tab., 9 x 6, pap.
- 133 **HARTFORD, CONN.** City bench marks, Hartford, Conn.; comp. by F. L. Ford. Board of Street Commissioners. Hartford, 1902. 95 pp., 7 x 4, ro.
- IDAHO.** Survey of the boundary line between Idaho and Montana from the international boundary to the crest of the Bitterroot Mountains. R. U. Goode. (U. S. Geological Survey. Bulletin No. 170.) 1900. (See Yh-87.)
- INDIAN TERRITORY.** Triangulation and spirit leveling in Indian Territory. C. H. Fitch. (U. S. Geological Survey. Bulletin No. 175.) 1900. (See Yh-87.)
- 71 **MASSACHUSETTS.** Report of the Commissioners of the Topographical Survey; 1900. Bost., 1901. 1 v., pl., map, 9 x 6, cl.
- 117 —Report of the Topographical Survey Commission on the marking of the boundary line between Massachusetts and New York. Bost., 1900. 57 pp., il., map, 7 tab., 9 x 6, cl. no title-page.
- 130 **MEXICO.** Report upon the survey and remarking of the boundary between the United States and Mexico west of the Rio Grande, 1891 to 1896. U. S.—International Boundary Commission. (55th Cong., 2d Sess. Senate doc. No. 247.) Wash., 1898. 3 v., il., maps, tab., 12 x 9, 11 x 13 (atlas 29 x 21), pap.
- MONTANA.** Survey of the boundary line between Idaho and Montana from the international boundary to the crest of the Bitterroot Mountains. R. U. Goode. (U. S. Geological Survey. Bulletin No. 170.) 1900. (See Yh-87.)
- NEVADA.** Oblique boundary line between California and Nevada. C. H. Sinclair. 1901. (See Qe-80, Report, 1900, p. 255.)
- NEW YORK STATE.** Annual report of the State Engineer and Surveyor for the fiscal year ending Sept. 30th, 1898-1901. (See Cfh-25.)
- 132 —Report of the Superintendent of the State Land Survey; 1895. N. Y., 1896. 1 v., il., pl., maps, 9 x 6, cl.
- 117 —Report on the marking of the boundary line between Massachusetts and New York. Mass.—Topographical Survey Commission. Bost., 1900. 57 pp., il., map, 7 tab., 9 x 6, cl. no title-page.
- Report on the spirit levels of the New York State barge canal survey of 1900 and 1901, by Wm. B. Landreth, Resident Engineer, Eastern Division, N. Y. Canals. New York—State Engineer and Surveyor. 1902. (See Cfh-92.)
- 120 **RHODE ISLAND.** Report of the Connecticut Commissioners on the boundary line between Rhode Island and Connecticut, Jan., 1888. Middletown, 1888. 41 pp., map, tab., 9 x 6, pap.
- 127 **ST. LOUIS, MO.** Elevations and descriptions of the precise level bench marks established by the Sewer Department during the years 1889, 1890, 1891 and 1892. St. Louis, 1897. 129 pp., il., 2 pl., tab., 9 x 6, sh.
- TEXAS.** Northwest boundary of Texas. Marcus Baker. (U. S. Geological Survey. Bulletin No. 194.) 1902. (See Yh-87.)
- 118 **UNITED STATES.** Annual report upon explorations and surveys in the Department of the Missouri; 1875. Corps of Engineers. Wash., 1875. 1 v., 9 x 6, pap.
- 106 —Annual report upon explorations and surveys in the Department of the Platte; 1875. Corps of Engineers. Wash., 1875. 1 v., 9 x 6, pap.
- 107 —Annual report upon the explorations and surveys in the Military Division of the Missouri; 1875. Corps of Engineers. Wash., 1875. 1 v., 9 x 6, pap.
- 43 —Annual report upon explorations and surveys in the Military Division of the Pacific; 1875. Corps of Engineers. Wash., 1875. 1 v., 9 x 6, pap.
- Boundaries of the United States and of the several states and territories, with an outline of the history of all important changes of territory. Henry Gannett. (U. S. Geological Survey. Bulletin No. 171.) 1900. (See Yh-87.)
- Dictionary of altitudes in the United States. Henry Gannett, comp. ed. 3. (U. S. Geological Survey. Bulletin No. 160.) 1899. (See Yh-87.)

Qe—(Continued).

- 131 — Eastern oblique arc of the United States and osculating spheroid; by Charles A. Schott. Coast and Geodetic Survey. (Special Publication, No. 7.) Wash., 1902. 394 pp., il., pl., 12 x 9, cl.
- 128 — Precise leveling in the United States; by John F. Hayford. Coast and Geodetic Survey. (Appendix No. 8. Report for 1898-99.) Wash., 1900. pp. 347-386, pl., tab., 12 x 9, pap.
- 80 — Report of the Superintendent of the Coast and Geodetic Survey, showing the progress of the work for the fiscal year ending June 30th, 1899-1901. Wash., 1900-02. 3 v., il., maps, 12 x 9, cl.
- Report on triangulation and spirit leveling in the United States; 1897-1900. Geological Survey. (See Yh-40.)
- 130 — Report upon the survey and remarking of the boundary between the United States and Mexico west of the Rio Grande, 1891 to 1896. International Boundary Commission. (55th Cong., 2d Sess. Senate doc. No. 247.) Wash., 1898. 3 v., il., maps, tab., 12 x 9, 11 x 13 (atlas 29 x 21), pap.
- Results of primary triangulation and primary traverse, fiscal year 1900-01. H. M. Wilson and others. (U. S. Geological Survey. Bulletin No. 181.) 1901. (See Yh-37.)
- Results of spirit leveling, fiscal year 1900-01. H. M. Wilson and others. (U. S. Geological Survey. Bulletin No. 185.) 1901. (See Yh-37.)
- Survey of the northwestern boundary of the United States, 1857-1861. Marcus Baker. (U. S. Geological Survey. Bulletin No. 174.) 1900. (See Yh-37.)
- 129 — Transcontinental triangulation and the American arc of the parallel; by Chas. A. Schott. Coast and Geodetic Survey. (Special Publication, No. 4.) Wash., 1900. 371 pp., il., pl., maps, tab., 12 x 9, cl.

GEOGRAPHY—MAPS AND ATLASES.**Qf**

- 301 **ADIRONDACK WILDERNESS.** Map of the Adirondack Forest and adjoining territory; comp. from the official maps and field notes on file in the State Departments at Albany, N. Y. New York State-Fisheries, Game and Forest Commission. N. Y., 1900. 4 sheets, 58 x 36, cl. scale about 9 000 ft. to 1 in.
- 611 **AFRICA.** Egypt and equatorial Africa; comp. fr. original surveys and the best authenticated sources. John Fowler, comp. Lond., 1875. sheet, 27 x 53, bds. scale about 70 miles to 1 in.
- 390.1 **ALABAMA.** Topographic atlas sheets of Alabama. U. S.-Geological Survey. Wash., 1900. 2 sheets, 17 x 15, pap. scale, 1:125 000. contour interval, 50 ft.
- ALASKA.** Explanation of an Indian map of the rivers, lakes, trails and mountains from the Chilkat to the Yukon, drawn by the Chilkat chief, Kohklux, in 1869. George Davidson. 1901. (See Zg-27.)
- Map of Alaska showing known gold-bearing rocks, with descriptive text containing sketches of the geography, geology and gold deposits and routes to the gold fields. U. S.-Geological Survey. 1898. (See Yh-191.)
- 545 **ARGENTINE REPUBLIC.** Railway map of the Argentine Republic. G. E. Church. Lond., 1897. sheet, 23 x 18, pap. scale, 100 miles to 1 in.
- 390.3 **ARKANSAS.** Topographic atlas sheets of Arkansas. U. S.-Geological Survey. Wash., 1899-1901. 6 sheets, 17 x 15, pap. scale, 1:125 000. contour interval, 50 ft.
- 606 **BARNSTABLE, MASS.** Map of the Town of Barnstable, Barnstable Co., Mass.; surveyed by order of the Town. H. F. Walling. no place, 1856. sheet, 31 x 26, cl. scale, 1:25 000.
- 563 **BILLERICA, MASS.** Map of the Town of Billerica, Middlesex Co., Mass.; surveyed by order of the Town. H. F. Walling. Bost., 1863. sheet, 29 x 25, cl. scale, 1 250 ft. to 1 in.
- 536 **BINGHAM MINING MAP, UTAH.** U. S.-Geological Survey. Wash., 1901. sheet, 21 x 16, pap. scale, 1 : 20 000. contour interval, 50 ft.
- 514 **BOSTON, MASS.** Description of the topographical model of Metropolitan Boston. G. C. Curtis. Bost., 1900. 37 pp., il., map, 10 x 7, pap.
- 592 — Map of Boston and the country adjacent; from actual surveys. H. F. Walling. Bost., 1874. sheet, 39 x 30, cl. scale, 1 mile to 1 in.
- 569 **BOSTON & LOWELL R. R.** Plan & profile of the B. & L. R. R. Bost., 1836. sheet, 8 x 37, ro. scales: plan, 3 900 ft. to 1 in.; horizontal profile, 3 960 ft. to 1 in.; vertical profile, 300 ft. to 1 in.
- 601 **BRAINTREE, MASS.** Map of the Town of Braintree, Norfolk Co., Mass.; surveyed by order of the Town. H. F. Walling. no place, 1853. sheet, 28 x 23, cl. scale, 1 : 12 000.
- 556 **BROOKLYN, N. Y.** Hayward's map of the City of Brooklyn. G. Hayward, pub. N. Y., no date. scale, 1 000 ft. to 1 in.

Qf—(Continued).

- 574 **BUFFALO, N. Y.** Map of the City of Buffalo. W. B. Gilbert. N. Y., 1835. sheet, 20 x 20, cl. no scale given.
- 389.4 **CALIFORNIA.** Geologic atlas of the United States: California folios. U. S.—Geological Survey. Wash., 1898-1900. 3 v., 22 x 18, pap. scales: 1:63 360; 1:125 000.
- 540 —Nevada Co.: Grass Valley special map. U. S.—Geological Survey. Wash., 1901. sheet, 17 x 14, pap. scale, 1:14 400. contour-interval, 20 ft.
- 390.4 —Topographic atlas sheets of California. U. S.—Geological Survey. Wash., 1900-01. 19 sheets, 17 x 15, 17 x 23, pap. scales: 1:62 500; 1:125 000. contour intervals, 50, 100 and 150 ft.
- 602 **CANADA.** Disturnell's new map of the United States and Canada; showing all the canals, railroads, telegraph lines and principal stage routes; drawn by Henry A. Burr. J. Disturnell, pub. N. Y., 1850. sheet, 27 x 38, bds. scale about 56 miles to 1 in.
- 515 **CANADA.** Map of the Dominion of Canada. Department of the Interior. Note: Map illustrating water power of Canada, to accompany presidential address, Royal Society of Canada, May, 1899. ed. 2. no place, 1900. sheet, 33 x 17, pap. scale, 100 miles to 1 in.
- 560 —New commercial map of the United States and Canada, showing all the railroads, counties and principal towns up to date; constructed from the latest government and railroad surveys, 1885. Rand, McNally & Co. Chic., 1885. sheet, 38 x 50, cl. scale, 55 miles to 1 in.
- 571 —New guide map of the United States & Canada, with railroads, counties, etc. G. W. Colton. N. Y., 1861. sheet, 27 x 23, cl. scale, 50 miles to 1 in.
- 529 —System of standard time as reported to the General and Southern Railway Time Conventions by W. F. Allen, Secretary, at their meetings held on Apr. 11th and 18th, 1883, and unanimously recommended by the Conventions for adoption by the railway lines of the United States and the Dominion of Canada. no place, 1883. sheet, 47 x 34, cl. no scale given.
- 566 **CANTON, MASS.** Map of the Town of Canton, Norfolk Co., Mass.; surveyed by order of the Town. H. F. Walling. no place, 1855. sheet, 33 x 26, cl. scale, $\frac{1}{2}$ mile to 1 in.
- 513 **CATSKILL MOUNTAINS.** Map of lands belonging to the Forest Preserve situated in the Counties of Delaware, Greene, Sullivan and Ulster; compiled from the official maps and field notes on file in the State Departments at Albany, N. Y. New York State-Fisheries, Game and Forest Commission. Albany, 1899. 2 sheets, 40 x 23, cl. scale about 2 miles to 1 in.
- 587 **CENTRAL AMERICA.** Map of the United States of America, the British Provinces, Mexico, West Indies and Central America, with part of New Granada and Venezuela. J. H. Colton, pub. N. Y., 1850. sheet, 28 x 34, cl. scale, 100 miles to 1 in.
- 278a **CHATTANOOGA BATTLEFIELD.** Atlas of the battlefields of Chickamauga, Chattanooga and vicinity. U. S.—Chickamauga and Chattanooga National Park Commission. Wash., 1901. 6 pp., 13 pl., 27 x 20, pap. various scales.
- 278a **CHICKAMAUGA BATTLEFIELD.** Atlas of the battlefields of Chickamauga, Chattanooga and vicinity. U. S.—Chickamauga and Chattanooga National Park Commission. Wash., 1901. 6 pp., 13 pl., 27 x 20, pap. various scales.
- 570 **CINCINNATI, OHIO.** Map of Cincinnati, Newport and Covington. E. Mendenhall, pub. Cin., 1865. sheet, 17 x 19, cl. no scale given.
- 528 **CLEAR CREEK COUNTY, COLO.** Map of the mining districts surrounding the townsite of Idaho Springs situate in Clear Creek County, Colo. T. H. Lowe. no place, 1881. sheet, 32 x 54, cl. scale, 500 ft. to 1 in.
- 389.5 **COLORADO.** Geologic atlas of the United States: Colorado folios. U. S.—Geological Survey. Wash., 1899-1901. 3 v., 22 x 18, pap. scales: 1:62 500; 1:125 000.
- 618 —Geological and geographical atlas of Colorado and portions of adjacent territory; by F. V. Hayden. U. S.—Geological and Geographical Surveys of the Territories. no place, 1881. 20 sheets, 26 x 19, $\frac{3}{4}$ ro. scales: 12 miles to 1 in; 4 miles to 1 in. contour intervals, 200 ft.
- 528 —Map of the mining districts surrounding the townsite of Idaho Springs situate in Clear Creek Co., Colo. T. H. Lowe. no place, 1881. sheet, 32 x 54, cl. scale, 500 ft. to 1 in.
- 390.5 —Topographic atlas sheets of Colorado. U. S.—Geological Survey. Wash., 1900-01. 3 sheets, 17 x 15, pap. scales: 1:62 500; 1:125 000. contour interval, 100 ft.
- 547 **CUBA.** Atlas of ports, cities and localities of the Island of Cuba; containing reproductions of maps, charts, and plans obtained from the United States Congressional Library, Coast and Geodetic Survey, Hydrographic Office, Engineer Dept., U. S. Army; also Pichardo's map of the Island of Cuba, and other sources. U. S.—War Department. Wash., 1898. 70 pp., maps, 21 x 27, cl.
- List of books relating to Cuba, including references to collected works and periodicals, by A. P. C. Griffin, Assistant Librarian of Congress, with bibliography of maps, by P. Lee Phillips, Superintendent, Maps and Charts Department. U. S.—Library of Congress, 1896. (See Qd-53.)

Qf—(Continued).

- 551 **DELAWARE.** Maryland & Delaware, with parts of Pennsylvania & Virginia, showing the railroads. F. Lucas, Jr. Balt., 1852. sheet, 18 x 17, cl. scale about 20 miles to 1 in.
- 561 **DETROIT, MICH.** People's map & guide of the City of Detroit. Eugene Robinson. Detroit, 1862. sheet, 16 x 18, cl. no scale given.
- 389.8 **DISTRICT OF COLUMBIA.** Geologic atlas of the United States: District of Columbia folios. U. S.-Geological Survey. Wash., 1901. 1 v., 22 x 18, pap. scale, 1:62 500.
- 516 —List of maps and views of Washington and District of Columbia in the Library of Congress, by P. Lee Phillips, Superintendent of Maps and Charts. U. S.-Library of Congress. (56th Cong., 1st. Sess. Senate doc. No. 154.) Wash., 1900. 77 pp., 9 x 6, pap.
- 611 **EGYPT.** And equatorial Africa; comp. fr. original surveys and the best authenticated sources. John Fowler, comp. Lond., 1875. sheet, 27 x 58, bds. scale about 70 miles to 1 in.
- 544 **ENGLAND.** Geological map of England and Wales. A. C. Ramsay. ed. 3. Lond., no date. sheet, 32 x 39, cl. scale, 20 miles to 1 in.
- 390.10 **GEORGIA.** Topographic atlas sheets of Georgia. U. S.-Geological Survey. Wash., 1901. sheet, 17 x 15, pap. scale, 1:125 000. contour interval, 50 ft.
- 540 **GRASS VALLEY, CAL.** California, Nevada Co.: Grass Valley special map. U. S.-Geological Survey. Wash., 1901. sheet, 17 x 14, pap. scale, 1:14 400. contour interval, 20 ft.
- 527 **HAMILTON COUNTY, N. Y.** New York wilderness: Hamilton County and adjoining territory. B. C. Butler, comp. Albany, 1879. sheet, 49 x 37, cl. no scale given.
- 582 **HAMILTON COUNTY, OHIO.** Map of Hamilton County, Ohio. E. Mendenhall, pub. Cin., no date. sheet, 25 x 42, cl. no scale given.
- 606 **HANSON, MASS.** Map of the Town of Hanson, Plymouth Co., Mass.; surveyed by order of the Town. H. F. Walling. no place, 1856. sheet, 25 x 17, cl. scale, 1:15 000.
- 537 **HELENA, MONT.** Montana: Helena special map. U. S.-Geological Survey. Wash., 1899. sheet, 17 x 12, pap. scale, 1:62 500. contour interval, 50 ft.
- 530 **HONDURAS.** Mappa de la República de Honduras, con adiciones y correcciones hasta la fecha por J. Francis Le Baron. A. T. Byrne. N. Y., 1901. sheet, 20 x 32, pap. scale, 1:1 000 000.
- 390.11 **IDAHO.** Topographic atlas sheets of Idaho. U. S.-Geological Survey. Wash., 1900-01. 2 sheets, 17 x 15, pap. scale, 1:125 000. contour interval, 100 ft.
- 553 **ILLINOIS.** Chapman's sectional map of Illinois. Silas Chapman, pub. Milwaukee, 1856. sheet, 36 x 23, cl. no scale given.
- 389.12 —Geologic atlas of the United States: Illinois folios. U. S.-Geological Survey. Wash., 1900. 1 v., 22 x 18, pap. scale, 1:62 500.
- 598 —Map of northern part of Illinois and the surveyed part of Wisconsin; with plat of Navarino Green Bay, Wis. Territory. N. Y., 1836. 2 sheets, 23 x 17, 16 x 22, cl. no scales given.
- 599 —New sectional map of the State of Illinois; comp. fr. the United States surveys. J. M. Peck, John Messinger and A. J. Mathewson. N. Y., 1850. sheet, 36 x 25, cl. scale, 10 miles to 1 in.
- 599a —Same. N. Y., 1853. sheet, 37 x 24, cl. scale, 10 miles to 1 in.
- 599b —Same. N. Y., 1854. sheet, 37 x 24, cl. scale, 10 miles to 1 in.
- 390.12 —Topographic atlas sheets of Illinois. U. S.-Geological Survey. Wash., 1899-1901. 7 sheets, 17 x 15, pap. scale, 1:62 500. contour intervals, 5 and 10 ft.
- 603 **INDIA.** Keith Johnston. Edin., no date. 43 pp., 9 x 4 (map 32 x 22), cl. scale, 70 miles to 1 in.
- 390.14 **INDIAN TERRITORY.** Topographic atlas sheets of Indian Territory. U. S.-Geological Survey. Wash., 1900-01. 22 sheets, 17 x 15, pap. scale, 1:125 000. contour interval, 50 ft.
- 549 **INDIANA.** New map of Indiana with its roads and distances. Thomas, Cowperthwait & Co., pub. Phil., 1852. sheet, 12 x 10, cl. scale about 20 miles to 1 in.
- 390.13 —Topographic atlas sheets of Indiana. U. S.-Geological Survey. Wash., 1900. sheet, 17 x 15, pap. scale, 1:62 500. contour interval, 10 ft.
- 548 **IOWA.** New map of the State of Iowa. Thomas, Cowperthwait & Co., pub. Phil., 1853. sheet, 12 x 14, cl. scale about 30 miles to 1 in.
- 390.15 —Topographic atlas sheets of Iowa. U. S.-Geological Survey. Wash., 1900-01. 4 sheets, 17 x 15, pap. scale, 1:125 000. contour interval, 20 ft.
- 390.16 **KANSAS.** Topographic atlas sheets of Kansas. U. S.-Geological Survey. Wash., 1900. 2 sheets, 17 x 15, pap. scale, 1:125 000. contour interval, 20 ft.
- 572 **KENTUCKY.** Geological map of Kentucky exhibiting the locations of the counties, cities, villages, post-offices, railway stations, etc., the railways, common roads, etc. E. Mendenhall, pub. Cin., 1865. sheet, 20 x 22, cl. scale about 20 miles to 1 in.

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- 589 — Map of the States of Kentucky and Tennessee. S. A. Mitchell, pub. Phil., 1835. sheet, 16 x 20, cl. scale about 20 miles to 1 in.
- 607 LEXINGTON, MASS. Map of the Town of Lexington, Middlesex Co., Mass.; surveyed by order of the Town. H. F. Walling. Bost., 1853. sheet, 33 x 27, cl. scale about $\frac{1}{2}$ mile to 1 in.
- 585 LONDON, ENGLAND. The intelligible excursion map round London, showing all the railways, stations, roads, etc. E. T. Gover, pub. Lond., no date. sheet, 14 x 20, bds. no scale given.
- 575 LOUISIANA. G. W. and C. B. Colton & Co., pub. N. Y., 1880. sheet, 11 x 14, pap. scale about 30 miles to 1 in.
- 597 — Indexed county map of Louisiana with a new and original compilation and index, designating all post office towns and railroad stations, an alphabetically arranged list of all railroads in the State, also, of the counties, lakes, rivers, etc., etc. Rand, McNally & Co. Chic., no date. 22 + 6 pp., 7 x 4 (map 12 x 18), pap. scale about 20 miles to 1 in.
- 581 — State University topographical map of Louisiana, showing the characteristic features of the surface of the state in symbols and colors; comp. fr. the latest and most authentic sources with many additions and corrections from actual reconnaissance. S. H. Lockett. N. Y., 1880. sheet, 28 x 30, cl. scale, 10 miles to 1 in.
- 567 LYONS, FRANCE. Plan de Lyon et ses nouveaux quartiers, La Guillotière, les Broleaux, Vaise, et la Croix-Rousse; d'après les derniers documents. J. B. Gadola, pub. Lyon, 1861. sheet, 20 x 32, bds. scale about 210 metres to 1 in.
- 390.19 MAINE. Topographic atlas sheets of Maine. U. S.-Geological Survey. Wash., 1900. 2 sheets, 17 x 15, pap. scale, 1: 62 500. contour interval, 20 ft.
- 595 — Topographical map of the County of Washington, Me.; from actual surveys. H. T. Walling. N. Y., 1861. sheet, 56 x 56, cl. scale, 1: 80 000.
- 604 MARLBOROUGH, MASS. Map of the Town of Marlborough, Middlesex Co., Mass.; surveyed by order of the Town. H. F. Walling. Bost., 1853. sheet, 28 x 36, cl. scale, 1: 15 000.
- MARYLAND. Bibliography and cartography of Maryland including publications relating to the physiography, geology and mineral resources of Maryland. E. B. Mathews. 1897. (See Yh-218. v. 1, Pt. 4.)
- 551 — Maryland & Delaware with parts of Pennsylvania & Virginia, showing the railroads. F. Lucas, Jr. Balt., 1852. sheet, 13 x 17, cl. scale about 20 miles to 1 in.
- 390.20 — Topographic atlas sheets of Maryland. U. S.-Geological Survey. Wash., 1900-01. 15 sheets, 17 x 15, pap. scale, 1: 62 500. contour intervals, 10 and 20 ft.
- 598 MARYSVILLE, MONT. Montana, Lewis and Clarke County: Marysville special map. U. S.-Geological Survey. Wash., 1901. sheet, 17 x 12, pap. scale, 1:31 250. contour interval, 50 ft.
- 573 MASSACHUSETTS. Colton's Massachusetts and Rhode Island. G. W. and C. B. Colton & Co., pub. N. Y., 1874. sheet, 11 x 14, cl. scale about 15 miles to 1 in.
- 389.21 — Geologic atlas of the United States: Massachusetts folios. U. S.-Geological Survey. Wash., 1898. 1 v., 22 x 18, pap. scale, 1: 125 000.
- 578 — New map of Massachusetts, comp. fr. the latest and best authorities. A. Williams & Co., pub. Bost., 1875. sheet, 18 x 27, cl. scale about 5 miles to 1 in.
- 390.21 — Topographic atlas sheets of Massachusetts. U. S.-Geological Survey. Wash., 1899-1901. 4 sheets, 17 x 15, pap. scales: 1:62 500; 1:125 000. contour intervals, 20 and 40 ft.
- 539 MENOMINEE, MICH. Michigan: Menominee special map. U. S.-Geological Survey. Wash., 1901. sheet, 12 x 17, pap. scale, 1:62 500. contour interval, 20 ft.
- 587 MEXICO. Map of the United States of America, the British Provinces, Mexico, West Indies and Central America, with part of New Granada and Venezuela. J. H. Colton, pub. N. Y., 1850. sheet, 28 x 34, cl. scale, 100 miles to 1 in.
- 577 — Mapa de los Estados Unidos de Méjico, California, etc.; según lo organizado y definido por las varias actas del Congreso de dicha República, y construido por las mejores autoridades. J. Disturnell, pub. N. Y., 1850. sheet, 28 x 38, cl. scale about 100 miles to 1 in.
- 389.22 MICHIGAN. Geologic atlas of the United States: Michigan folios. U. S.-Geological Survey. Wash., 1900. 1 v., 52 x 18, pap. scale, 1:62 500.
- 599 — Menominee special map. U. S.-Geological Survey. Wash., 1901. sheet, 12 x 17, pap. scale, 1:62 500. contour interval, 20 ft.
- 590 — New map of Michigan with its canals, roads and distances. S. A. Mitchell, pub. Phil., 1846. sheet, 13 x 11, cl. scale about 30 miles to 1 in.
- 558 MINNESOTA. Chapman's new sectional map of Minnesota. Silas Chapman. N. Y., 1856. sheet, 25 x 20, cl. no scale given.
- 390.23 — Topographic atlas sheets of Minnesota. U. S.-Geological Survey. Wash., 1901. sheet, 17 x 15, pap. scale, 1:62 500. contour interval, 20 ft.

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- 533 **MISSISSIPPI RIVER.** District map of the Lower Mississippi River. Mississippi River Commission. no place, 1897. sheet, 38 x 80, pap. scale, 5 miles to 1 in.
- 534 — Map of the alluvial valley of the Upper Mississippi River from the Falls of St. Anthony to the mouth of the Ohio River, showing lands subject to overflow, bluff lines defining the limit of the alluvial valley, location of levees and trans-valley profiles. Mississippi River Commission. no place, 1899. 4 sheets, 30 x 50, pap. scale, 5 miles to 1 in.
- 532 — Map of the Mississippi River; sheets 101-130. Mississippi River Commission. Note: Map of the Upper Mississippi. no place, 1898-1900. 30 sheets, 15 x 24, pap. scale, 1 mile to 1 in.
- 531 — Survey of the Mississippi River; charts 101-186. Mississippi River Commission. Note: Detail map of the Upper Mississippi. no place, no date. 86 sheets, 25 x 39, pap. scale, 1:20 000.
- 555 **MISSOURI.** J. H. Colton, pub. N. Y., 1854. sheets, 11 x 14, cl. scale about 30 miles to 1 in.
- 554 — Colton's new map of Missouri; comp. fr. the U. S. Surveys and other authentic sources. J. H. Colton, pub. N. Y., 1853. sheet, 24 x 20, cl. scale, 15 miles to 1 in.
- 552 — New map of the State of Missouri. Thomas, Cowperthwait & Co., pub. Phil., 1852. sheet, 11 x 14, cl. scale about 30 miles to 1 in.
- 568 — Parker's geological map of Missouri, showing the location of the principal deposits of iron, lead, zinc, copper, tin, gold, silver, platina, nickel, manganese, alabaster, kaolin, coal, diamonds, oil springs, etc., and a list of unentered lands in each county, with the population, etc. N. H. Parker. no place, 1865. sheet, 17 x 20, bds. scale, 18 miles to 1 in.
- 390.25 — Topographic atlas sheets of Missouri. U. S.-Geological Survey. Wash., 1901. sheet, 17 x 15, pap. scale, 1:125 000. contour interval, 50 ft.
- 542 **MONROE COUNTY, WIS.** Map. G. B. Holden, comp. Sparta, Wis., 1858. sheet, 29 x 27, cl. scale, 1 mile to 1 in.
- 389.26 **MONTANA.** Geologic atlas of the United States: Montana folios. U. S.-Geological Survey. Wash., 1899. 1 v., 22 x 18, pap. scale, 1:250 000.
- 537 — Helena special map. U. S.-Geological survey. Wash., 1899. sheet, 17 x 12, pap. scale, 1:62 500. contour interval, 50 ft.
- 538 — Lewis and Clarke County: Marysville special map. U. S.-Geological Survey. Wash., 1901. sheet, 17 x 12, pap. scale, 1:31 250. contour interval, 50 ft.
- 390.26 — Topographic atlas sheets of Montana. U. S.-Geological Survey. Wash., 1899-1901. 4 sheets, 17 x 15, pap. scales: 1: 62 500; 1:125 000. contour intervals, 50 and 100.
- 598 **NAVARINO, WIS.** Map of northern part of Illinois and the surveyed part of Wisconsin Territory; with plat of Navarino Green Bay, Wis. Territory. N. Y., 1836. 2 sheets, 23 x 17, 16 x 22, cl. no scales given.
- 390.27 **NEBRASKA.** Topographic atlas sheets of Nebraska. U. S.-Geological Survey. Wash., 1899-1901. 6 sheets, 17 x 15, pap. scale, 1:125 000. contour interval, 20 ft.
- 390.28 **NEVADA.** Topographic atlas sheets of Nevada. U. S.-Geological Survey. Wash., 1900. sheet, 17 x 15, pap. scale, 1:125 000. contour interval, 100 ft.
- 533 **NEW HAMPSHIRE.** Map of the White Mountains and vicinity, N. H.; prepared for *Eastman's White Mountain Guide*. C. H. V. Cavis. Bost., no date. sheet, 14 x 11, cl. scale, 5 miles to 1 in.
- 390.29 — Topographic atlas sheets of New Hampshire. U. S.-Geological Survey. Wash., 1900. 2 sheets, 17 x 15, pap. scale, 1: 62 500. contour interval, 20 ft.
- 390.30 **NEW JERSEY.** Topographic atlas sheets of New Jersey. U. S.-Geological Survey. Wash., 1900-01. 10 sheets, 17 x 15, pap. scales: 1:62 500; 1:125 000. contour intervals, 5, 10 and 20 ft.
- 390.31 **NEW MEXICO.** Topographic atlas sheets of New Mexico. U. S.-Geological Survey. Wash., 1899. sheet, 17 x 15, pap. scale, 1: 250 000. contour interval, 200 ft.
- 535 **NEW ORLEANS, LA.** Map of New Orleans and vicinity, showing Port Chalmette. Mississippi River Commission. no place, 1874. 4 sheets, 24 x 38, pap. scale, 1: 10 000.
- 594 **NEW YORK CITY.** Map of the City of New York and its vicinity; from actual surveys. H. F. Walling. N. Y., 1865. sheet, 58 x 58, cl. scale, $\frac{1}{2}$ mile to 1 in.
- 397a — New York and vicinity; surveyed in 1887-88-89 and 1897. U. S.-Geological Survey. no place, 1901. sheet, 49 x 38, pap. scale, 1: 62 500. contour interval, 20 ft.
- 576 — H. S. Tanner. Phil., 1847. sheet, 20 x 25, cl. scale about 20 miles to 1 in.
- 416.32 **NEW YORK STATE.** Land classification sheets of the State of New York. U. S.-Geological Survey. Note: Map of Mt. Marcy and vicinity. Wash., 1898. sheet, 34 x 26, pap. scale, 1: 62 500. contour interval, 20 ft.

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- 518 — Map of lands belonging to the Forest Preserve situated in the Counties of Delaware, Greene, Sullivan and Ulster; compiled from the official maps and field notes on file in the State Departments at Albany. N. Y. Fisheries, Game and Forest Commission. Albany, 1899. 2 sheets, 40 x 23, cl. scale about 2 miles to 1 in.
- 527 — New York wilderness: Hamilton County and adjoining territory. B. C. Butler, comp. Albany, 1879. sheet, 49 x 47, cl. no scale given.
- 390.32 — Topographic atlas sheets of the State of New York. U. S.—Geological Survey. Wash., 1899-1901. 42 sheets, 17 x 15, pap. scales: 1:62 500; 1:125 000. contour intervals, 20 and 40 ft.
- 591 NORTH AMERICA. Map of North America, showing the routes to California. J. C. Smith. N. Y., 1850. sheet, 20 x 17, cl. scale, 250 miles to 1 in.
- 390.33 NORTH CAROLINA. Topographic atlas sheets of North Carolina. U. S.—Geological Survey. Wash., 1901. sheet, 17 x 15, pap. scale, 1:125 000. contour intervals, 100 ft.
- 390.34 NORTH DAKOTA. Topographic atlas sheets of North Dakota. U. S.—Geological Survey. Wash., 1900. sheet, 17 x 15, pap. scale, 1:125 000. contour interval, 20 ft.
- 09 NORTHBRIDGE, MASS. Map of the Town of Northbridge; from actual survey. Cushing & Walling. no place, 1849. sheet, 22 x 24, cl. scale, $\frac{1}{4}$ mile to 1 in.
- 600 OHIO. Geological map of Ohio with the adjoining portions of Pennsylvania and Maryland. E. Mendenhall, pub. Cin., 1865. sheet, 25 x 20, cl. scales: map, 15 miles to 1 in.; horizontal, 10 miles to 1 in.; vertical, 1 000 ft. to 1 in.
- 582 — Map of Hamilton County, Ohio. E. Mendenhall, pub. Cin., no date. sheet, 25 x 42, cl. no scale given.
- 390.35 — Topographic atlas sheets of Ohio. U. S.—Geological Survey. Wash., 1900. 9 sheets, 17 x 15, 17 x 27, pap. scale, 1:62 500. contour interval, 20 ft.
- 389.37 OREGON. Geologic atlas of the United States: Oregon folios. U. S.—Geological Survey. Wash., 1898. 1 v., 22 x 18, pap. scale, 1:12 500.
- 390.37 — Topographic atlas sheets of Oregon. U. S.—Geological Survey. Wash., 1900. 2 sheets, 17 x 15, pap. scale, 1:125 000. contour interval, 100 ft.
- 612 PENNSYLVANIA. Map of the northern oil fields embracing the Counties of Warren, McKean, Forest and Elk in Pennsylvania; comp. fr. actual surveys by Jno. Morgan, and fr. advance sheets of 2d Geological Survey of Pa. by C. A. Ashburner. J. L. Smith. Phil., 1881. sheet, 42 x 48, cl. scale, 1 mile to 1 in.
- 579 — New county map of the State of Pennsylvania and adjoining states showing the route of the Central & other railroads, etc.; reduced fr. the large state map by I. W. Otley. R. L. Barnes, pub. Phil., 1853. sheet, 24 x 35, cl. scale, 10 miles to 1 in.
- 584 — Opperman's new and complete map of the Bradford oil region. J. Opperman. no place, copyright 1890. sheet, 28 x 28, cl. scale about 300 rods to 1 in.
- 541 — Railroad map of Pennsylvania. Department of Internal Affairs, pub. no place, 1901. sheet, 38 x 53, cl. scale, 6 miles to 1 in.
- 390.38 — Topographic atlas sheets of Pennsylvania. U. S.—Geological Survey. Wash., 1899-1900. 8 sheets, 17 x 15, pap. scale, 1:32 500. contour interval, 20 ft.
- 588 — Tourist's pocket map of Pennsylvania exhibiting its internal improvements, roads, distances, etc. J. R. Young. Phil., 1884. sheet, 12 x 14, mor. scale about 20 miles to 1 in.
- 580 PHILADELPHIA, PA. Barnes' map of Philadelphia: Built portion of the city. R. L. Barnes, pub. Phil., no date. sheet, 21 x 20, cl. no scale given.
- 596 — Illustrated plan of the principal portion of the City of Philadelphia extended to embrace its Centennial grounds showing the general buildings of the great International Exhibition. L. Behrens, comp. Phil., 1876. sheet, 21 x 27, cl. scale about 1 000 ft. to 1 in.
- 596 PHILADELPHIA INTERNATIONAL EXHIBITION, 1876. Illustrated plan of the principal portion of the City of Philadelphia extended to embrace its Centennial grounds showing the general buildings of the great International Exhibition. L. Behrens, comp. Phil., 1876. sheet, 21 x 27, cl. scale about 1 000 ft. to 1 in.
- 546 PHILIPPINE ISLANDS. Map of Philippine Islands and adjacent seas, from material of the English and Batavian Governments. N. Y., copyright 1898. sheet, 37 x 20, cl. scale, 30 miles to 1 in.
- 605 RAYNHAM, MASS. Map of the Town of Raynham, Bristol Co., Mass.; surveyed by order of the Town. H. F. Walling. no place, 1855. sheet, 30 x 23, cl. scale, 80 rods to 1 in.
- 614 RHODE ISLAND. Atlas of the State of Rhode Island and Providence Plantations; from actual surveys and official records. D. G. Beers & Co., comp. and pub. Phil., 1870. 185 pp., maps, 16 x 14, cl. scale, $2\frac{1}{4}$ miles to 1 in.
- 573 — Colton's Massachusetts and Rhode Island. G. W. and C. B. Colton & Co., pub. N. Y., 1874. sheet, 11 x 14, cl. scale about 15 miles to 1 in.

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- 420 — Road map of the Island of Rhode Island. W. H. Lawton. Note: The contours are shown for every 20 ft. elevation above mean high water. Newport, 1886. sheet, 76 x 35, cl. scale about $\frac{1}{4}$ mile to 1 in.
- 228 ST. LAWRENCE RIVER. Profile of the St. Lawrence River and Canals. Canada-Deep Waterways Commission. no place, 1896. sheet, 14 x 60, pap. scales: horizontal, 13 200 ft. to 1 in.; vertical, 50 ft. to 1 in.
- 564 SANDWICH, MASS. Map of the Town of Sandwich, Barnstable Co., Mass.; surveyed by order of the Town. H. F. Walling. no place, 1857. sheet, 26 x 35, cl. scale, 30 rods to 1 in.
- 593 SOUTH CAROLINA. Map of South Carolina; constructed and drawn from the district surveys, ordered by the Legislature. John Wilson. Phil., no date. sheet, 42 x 55, bds. scale, 6 miles to 1 in.
- 390.41 SOUTH DAKOTA. Topographic atlas sheets of South Dakota. U. S.—Geological Survey. Wash., 1899-1901. 8 sheets, 17 x 15, pap. scales: 1:62 500; 1:125 000. contour intervals, 20, 50 and 100 ft.
- SPAIN. *Reseña de los trabajos realizados por la Comisión del Mapa geológico de España.* M. F. de Castro. 1890. (See Ya-27, p. 107.)
- 389.42 TENNESSEE. Geologic atlas of the United States: Tennessee folios. U. S. Geological Survey. Wash., 1899. 1 v., 22 x 18, pap. scale, 1:125 000.
- 589 — Map of the States of Kentucky and Tennessee. S. A. Mitchell, pub. Phil., 1885. sheet, 16 x 20, cl. scale about 20 miles to 1 in.
- 390.42 — Topographic atlas sheets of Tennessee. U. S.—Geological Survey. Wash., 1900-01. 4 sheets, 17 x 15, pap. scale, 1:125 000. contour intervals, 50 and 100 ft.
- 389.43 TEXAS. Geologic atlas of the United States: Texas folios. U. S.—Geological Survey. Wash., 1900. 1 v., 22 x 18, pap. scale, 1:125 000.
- 45 — Map of Texas and parts of adjoining territories; comp. by Robert T. Hill. U. S.—Geological Survey. Wash., 1899. sheet, 30 x 34, pap. scale, 25 miles to 1 in. contour interval, 250 ft.
- 519 — Official map of the State of Texas to accompany the statistical and descriptive work, *Resources, Soil and Climate of Texas*. Commissioner of Insurance, Statistics and History. Chic., 1882. sheet, 31 x 30, pap. scale, 20 miles to 1 in.
- 517 — Railroad and county map of Texas. Railroad Commission. St. Louis, 1901. sheet, 35 x 31, pap. scale, 25 miles to 1 in.
- 390.43 — Topographic atlas sheets of Texas. U. S.—Geological Survey. Wash., 1901. sheet, 17 x 15, pap. scale, 1:125 000. contour interval, 25 ft.
- 562 TIVERTON, R. I. Map of the Town of Tiverton, Newport Co., R. I. W. G. Borden. Phil., 1884. sheet, 33 x 27, cl. no scale given.
- 602 UNITED STATES. Disturnell's new map of the United States and Canada; showing all the canals, railroads, telegraph lines and principal stage routes; drawn by Henry A. Burr. J. Disturnell, pub. N. Y., 1850. sheet, 27 x 33, bds. scale about 56 miles to 1 in.
- 389 — Geologic atlas of the United States; Folios 49-71. Geological Survey. Library Edition. Wash., 1898-1901. 22 v., maps, 22 x 18, pap. scales, 1:15 000 to 1:250 000.
- 416 — Land classification sheets of the United States. Geological Survey. Wash., 1898-1900. 3 sheets, 17 x 15, 34 x 26, pap. scales: 1:62 500; 1:125 000. contour intervals, 20 and 50 ft.
- 557 — Map of the States of Maine, New Hampshire, Vermont, Massachusetts, Connecticut & Rhode Island. H. S. Tanner. Phil., 1845. sheet, 24 x 19, cl. scale about 20 miles to 1 in.
- 587 — Map of the United States of America, the British Provinces, Mexico, West Indies and Central America, with part of New Granada and Venezuela. J. H. Colton, pub. N. Y., 1850. sheet, 28 x 34, cl. scale, 100 miles to 1 in.
- 560 — New commercial map of the United States and Canada, showing all the railroads, counties and principal towns up to date; constructed fr. the latest government and railroad surveys, 1883. Rand, McNally & Co. Chic., 1883. sheet, 38 x 50, cl. scale, 65 miles to 1 in.
- 571 — New guide map of the United States & Canada, with railroads, counties, etc. G. W. Colton. N. Y., 1861. sheet, 27 x 33, cl. scale, 50 miles to 1 in.
- 529 — System of standard time as reported to the General and Southern Railway Time Conventions by W. F. Allen, Secretary at their meetings held on Apr. 11th and 18th, 1883, and unanimously recommended by the Conventions for adoption by the railway lines of the United States and the Dominion of Canada. no place, 1883. sheet, 47 x 34, cl. no scale given.
- 390 — Topographic atlas sheets of the United States. Geological Survey. Wash., 1899-1901. 221 sheets, 17 x 15, pap. scales, 1:62 500 to 1:250 000. contour intervals, 5 to 200 ft.
- 536 UTAH. Bingham mining map. Utah. U. S.—Geological Survey. Wash., 1901. sheet, 21 x 16, pap. scale, 1:20 000. contour interval, 50 ft.
- 389.44 — Geologic atlas of the United States: Utah folios. U. S.—Geological Survey. Wash., 1900. 1 v., 22 x 18, pap. scale, 1:62 500.

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- 390.45 **VERMONT.** Topographic atlas sheets of Vermont. U. S.-Geological Survey. Wash., 1900. sheet, 17 x 15, pap. scale, 1:62 500. contour interval, 20 ft.
- 389.46 **VIRGINIA.** Geologic atlas of the United States: Virginia folios. U. S.-Geological Survey. Wash., 1899. 2 v., 22 x 18, pap. scale, 1:12 500.
- 550 — Tourist's pocket map of the State of Virginia, exhibiting its internal improvements, roads, distances, etc. J. R. Young. Phil., 1850. sheet, 12 x 14, cl. scale, 30 miles to 1 in.
- 544 **WALES.** Geological map of England and Wales. A. C. Ramsay. ed. 3. Lond., no date. sheet, 32 x 39, cl. scale, 20 miles to 1 in.
- 516 **WASHINGTON, D. C.** List of maps and views of Washington and District of Columbia in the Library of Congress; by P. Lee Phillips, Superintendent of Maps and Charts. U. S.-Library of Congress. (56th Cong., 1st Sess. Senate doc. No. 154.) Wash., 1900. 77 pp., 9 x 8, pap.
- 595 **WASHINGTON COUNTY, ME.** Topographical map of the County of Washington, Me., from actual surveys. H. T. Walling. N. Y., 1861. sheet, 56 x 56, cl. scale, 1:80 000.
- 389.47 **WASHINGTON STATE.** Geologic atlas of the United States: Washington folios. U. S.-Geological Survey. Wash., 1899. 1 v., 22 x 18, pap. scales, 1:125 000-1:24 000.
- 416.47 — Land classification sheets of Washington. U. S.-Geological Survey. Note: Maps of the Seattle and Tacoma quadrangles. Wash., 1900. 2 sheets, 17 x 15, pap. scale, 1:125 000. contour interval, 50 ft.
- 390.47 — Topographic atlas sheets of Washington. U. S.-Geological Survey. Wash., 1900-01. 7 sheets, 17 x 15, pap. scale, 1:125 000. contour intervals, 50 and 100 ft.
- WEST VIRGINIA.** Cartography of West Virginia from 1787 to 1901. S. B. Brown. 1901. (See Yh-212, Bulletin No. 1, p. 52.)
- 389.48 — Geologic atlas of the United States: West Virginia folios. U. S.-Geological Survey. Wash., 1900. 1 v., 22 x 18, pap. scale, 1:125 000.
- 518 — Map of West Virginia, compiled by Russell L. Morris, from county atlases, government and other surveys, showing the coal, oil and gas developments, prominent anticlinal axes and the outcrops of the different coal series; by I. C. White. West Virginia-Geological Survey. Morgantown, 1901. sheet, 30 x 27, pap. scale, 1 mile to 1 in.
- 390.48 — Topographic atlas sheets of West Virginia. U. S.-Geological Survey. Wash., 1901. 2 sheets, 17 x 15, pap. scale, 1:125 000. contour interval, 100 ft.
- 565 **WEYMOUTH, MASS.** Map of the Town of Weymouth, Norfolk Co., Mass.; surveyed by order of the Town. H. F. Walling. Bost., 1853. sheet, 34 x 25, cl. scale, 80 rods to 1 in.
- 533 **WHITE MOUNTAINS.** Map of the White Mountains and vicinity, N. H.; prepared for *Eastman's White Mountain Guide*. C. H. V. Cavis. Bost., no date. sheet, 14 x 11, cl. scale, 5 miles to 1 in.
- 559 **WISCONSIN.** Chapman's sectional map of Wisconsin, with the most recent surveys. Silas Chapman. Milwaukee, 1857. sheet, 30 x 23, cl. scale, 10 miles to 1 in.
- 542 — Map of Monroe County, Wis. G. E. Holden, comp. Sparta, Wis., 1853. sheet, 29 x 27, cl. scale, 1 mile to 1 in.
- 598 — Map of northern part of Illinois and the surveyed part of Wisconsin Territory; with plat of Navarino Green Bay, Wis. Territory. N. Y., 1836. 2 sheets, 23 x 17, 16 x 22, cl. no scales given.
- 390.49 — Topographic atlas sheets of Wisconsin. U. S.-Geological Survey. Wash., 1900-01. 9 sheets, 17 x 15, pap. scales: 1:62 500: 1:125 000. contour interval, 20 ft.
- 543 **WORLD.** Atlas of meteorology; a series of over four hundred maps, ed. by Alexr. Buchan. J. G. Bartholomew and A. J. Herbertson. (Bartholomew's Physical Atlas, v. 3.) Phil., 1899. 40 + 14 pp., pl., maps., 17 x 12, 1/2 mor.
- 512 — Century atlas of the world; prepared under the superintendence of Benjamin E. Smith. N. Y., 1897. 4 + 402 pp., 118 maps, 18 x 10, 3/4 mor.
- 610 — Chart of the world on Mercator's projection; constructed by Herman Berghaus. Justus Perthes, pub. Gotha, no date. sheet, 34 x 57, pap. no scale given.
- 586 — Collins' emigrant's map of the world; with full particulars of the various distances and time consumed on voyage, with cost of passage; also, accurate information on the class of labour most in requisition at each place. H. G. Collins, pub. Lond., no date. 12 pp., 6 x 4 (map 12 x 26), pap. no scale given.
- 389.50 **WYOMING.** Geologic atlas of the United States: Wyoming folios. U. S.-Geological Survey. Wash., 1899. 1 v., 22 x 18, pap. scale, 1:125 000.
- 390.50 — Topographic atlas sheets of Wyoming. U. S.-Geological Survey. Wash., 1901. 10 sheets, 17 x 15, pap. scale, 1:125 000. contour intervals, 50 and 100 ft.
- 389.50 **YELLOWSTONE NATIONAL PARK.** Geologic atlas of the United States: Wyoming folios. U. S.-Geological Survey. Wash., 1899. 1 v., 22 x 18, pap. scale, 1:125 000.
- 390.50 — Topographic atlas sheets of Wyoming. U. S.-Geological Survey. Wash., 1896-1901. 7 sheets, 17 x 15, pap. scale, 1:125 000. contour interval, 100 ft.

SURVEYING AND DRAWING.

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- BALTIMORE—TOPOGRAPHICAL SURVEY.** Report to the Mayor and City Council of Baltimore; 1895. (See Ob5-3.1.)
- 89 **BARTLETT, F. W.** Mechanical drawing; written for the naval cadets at the United States Naval Academy. N. Y., 1901. 8 + 188 pp., 9 x 6, pap.
- 70 **BLUME, FEDERICO.** Ajuste de los instrumentos de nivelar. Lima, 1901. 42 pp., 9 x 6, pap.
- 96 **BLUNT, E., and G. W.** Description of E. & G. W. Blunt's engine for the dividing of instruments used in navigation and surveying. N. Y., 1858. 8 pp., pl., 11 x 9, bds.
- 85 **DAVIS, A. P.** Elevation and stadia tables for obtaining differences of altitude for all angles and distances; horizontal distances in stadia work, etc., with all necessary corrections; together with hydraulic tables giving velocity for various channels and slopes. N. Y., 1901. 48 pp., tab., 9 x 6, cl.
- 69 **DOWNES, R. H. B.** Determination of longitude in land surveying. Lond., 1898. 17 pp., 8 x 5, pap.
- 88a **FISH, J. C. L.** Blank-book for lettering, to be used with "Linear drawing and lettering." Palo Alto, 1901. plates, 6 x 10, pap.
- 88 —Linear drawing and lettering for beginners. Palo Alto, 1901. 65 pp., pl., 6 x 10, cl.
- 93 **FOX, WILLIAM, and C. W. THOMAS.** Practical course in mechanical drawing. N. Y., 1899. 6 + 98 pp., il., 8 x 6, cl.
- 11a **GURLEY, W., and L. E.** Manual of the principal instruments used in American engineering and surveying. ed. 31. Troy, 1895. 498 pp., il, por., 7 x 4, cl. *
- 11b —Same. ed. 35. Troy, 1901. 434 pp., il., por., 7 x 5, cl.
- HAYFORD, J. F.** Recent progress in geodesy. 1900. (See Sa3-170.1, Report, 1899, p. 1.)
- 76a **HEATHER, J. F.** Treatise on mathematical instruments; including most of the instruments employed in drawing, for assisting the vision, in surveying and levelling, in practical astronomy, and for measuring the angles of crystals; in which their construction and the methods of testing, adjusting and using them are concisely explained. ed. 2. Lond., 1853. 6 + 167 + 4 pp., il., pl., 7 x 4, cl.
- HOSKOLD, H. D.** New civil and mining engineers' transit-theodolite, for connecting underground workings to the surface, *vice versa*, and for general surveying. 1902. (See Sd6-3.1, v. 24, p. 258.)
- INSTITUTION OF SURVEYORS, NEW SOUTH WALES.** The Surveyor: The Journal of the Institution; 1900-01. (See Sg-3.1.)
- 71 **LANGE, G. A.** Manual de topografía, especialmente para exploraciones geográficas y construcción de mapas sobre regiones extensas y breves observaciones sobre organización equipo y provisiones. Buenos Aires, 1898. 4 + 149 pp., pl., maps, 9 x 7, pap.
- MARGARIT, JOSE.** Aparatos Bentabol. 1890. (See Ya-27, p. 44.)
- NEW YORK—STATE ENGINEER AND SURVEYOR.** Canal survey under Chapter 411, Laws 1900: Instructions for survey parties. 1900. (See Cfb-147.)
- 94 **NOBLE, ALFRED, and W. T. CASGRAIN,** comp. Tables for obtaining horizontal distances of level, from stadia readings. N. Y., 1902. 7 pp., il., 19 tab., 7 x 5, cl.
- 91 **NUGENT, P. C.** Plane surveying. N. Y., 1902. 16 + 577 pp., il., 6 pl., 18 tab 9 x 6, cl.
- 90 **PREVOT, EUGENE.** Topographie: suivi d'un appendice relatif à la topographie expédiée par O. Roux. (Bibliothèque du Conducteur de Travaux Publics.) Contents: v. 1, Instruments. v. 2, Méthodes. Paris, 1898-1900 2 v., il., maps, 8 x 5, ro.
- 87 **REID, J. S., and DAVID.** Text-book of mechanical drawing and elementary machine design. N. Y., 1901. 8 + 389 pp., il., tab., 9 x 6, cl.
- ST. LOUIS, MO.—SEWER COMMISSIONER.** Elevations and descriptions of the precise level bench marks established by the Sewer Department during the years 1889, 1890, 1891 and 1892. 1897. (See Qe-127.)

R—(Continued).

- 92 **SCOTT, D. D., and others.** Evolution of mine-surveying instruments, comprising the original paper of Mr. Scott on the subject, together with the discussion thereof, and independent contributions on the subject. Note: Reprinted from Vols. XXVIII-XXXI of the *Transactions of the American Institute of Mining Engineers*. N. Y., 1902. 384 pp., il., 9 x 6, cl.
- 86 **STANLEY, W. F.** Surveying and levelling instruments theoretically and practically described for construction, qualities, selection, preservation, adjustments and uses; with other apparatus and appliances used by civil engineers and surveyors in the field. ed. 3. Lond., 1901. 15 + 562 pp., il., 8 x 5, cl.
- THOMPSON, G. R.** Connection of underground and surface surveys. 1902. (See Sd6-3.1, v. 24, p. 241.)
- 95 **TURNER, D. L.** Topographical record and sketch book for use with transit and stadia. N. Y., 1902. unpagcd, 8 x 5, cl.
- UNITED STATES—COAST AND GEODETIC SURVEY.** Eastern oblique arc of the United States and osculating spheroid; by Charles A. Schott. 1902. (See Qe-131.)
- Precise leveling in the United States; by John F. Hayford. 1900. (See Qe-128.)
- The transcontinental triangulation, and the American arc of the parallel; by Chas. A. Schott. 1900. (See Qe-129.)
- 72 **UNITED STATES—CORPS OF ENGINEERS.**—Specifications, etc., for the construction of signal stations on Minnesota Point. Duluth, 1894. 8 pp., 14 x 8, pap. no title-page.
- 25a **UNITED STATES—GENERAL LAND OFFICE.** Instructions to the surveyors-general of public lands of the United States, for those surveying districts established in and since the year 1850; containing also a manual of instructions to regulate the field operations of deputy surveyors. Wash., 1855. 6 + 56 pp., pl., 9 x 6, sh.
- UNITED STATES—INTERNATIONAL BOUNDARY COMMISSION.** Report upon the survey and re-marking of the boundary between the United States and Mexico west of the Rio Grande, 1891 to 1896. 1898. (See Qe-130.)
- VICTORIAN INSTITUTE OF SURVEYORS.** Transactions and proceedings; 1874-84, '91-'99. (See Sg-4.1.)
- 42 **WILSON, H. M.** Topographic surveying; including geographic, exploratory, and military mapping; with hints on camping, emergency surgery, and photography. N. Y., 1900. 30 + 910 pp., il., 4 pl., 72 tab., 9 x 6, cl.

SOCIETY PUBLICATIONS.

SOCIETY PUBLICATIONS—NORTH AMERICA.

Sa1 CANADA.

- 7.1 **CANADIAN MINING INSTITUTE.** Journal; 1901-02 (v. 4-5). Ottawa, 1901-02. 2 v., il., 9 x 6, pap.
- 5.4 **CANADIAN SOCIETY OF CIVIL ENGINEERS.** Address of President at the annual meeting; 1902. no place, 1902. 1 v., 9 x 6, pap.
- 5.8 — Charter, by-laws and list of members; 1901-02. Montreal, 1901-02. 2 v., 9 x 6, pap.
- 5.2 — Report of annual meeting; 1898, 1900-02. Montreal, 1898-1902. 4 v., 9 x 6, pap.
- 5.1 — Transactions; Jan.-June, 1899; June, 1900-01 (v. 13, Pt. 1, 14-15). Montreal, 1899-1901. 1 v., 9 x 6, unbound.
- 5.1a — Same; Index; v. 1-4. no place, 1902. 11 pp., 9 x 6, pap.
- 11.1 **ONTARIO ASSOCIATION OF ARCHITECTS.** Proceedings; 1901 (v. 1). Toronto, 1901. 1 v., il., 10 x 7, pap.
- 1.1 **ROYAL SOCIETY OF CANADA.** Transactions and proceedings; 1899 (ser. 2, v. 5-7). Montreal, 1899-1901. 3 v., 10 x 7, cl.

Sa2 MEXICO.

- 1.1 **SOCIEDAD CIENTIFICA "ANTONIO ALZATE."** Memorias y revista; 1899-1900 (v. 14-16). Mexico, 1899-1901. 3 v., 9 x 6, pap.

Sa3 UNITED STATES.

- AMERICAN AGRICULTURAL ASSOCIATION.** Journal; 1881 (v. 1, Nos. 1, 3, 4). N. Y., 1881. 1 v., il., pl., tab., 9 x 7, b. p. Za-41, pp. 67, 327.
- 172.1 **AMERICAN ASSOCIATION OF GENERAL PASSENGER AND TICKET AGENTS.** Proceedings at the annual convention; 43d; 1898. Cleveland, 1898. 1 v., 9 x 6, pap.
- AMERICAN BANKERS' ASSOCIATION.** Action of the Executive Council of the American Bankers' Association at its meeting in New York City on Oct. 16th and 17th, 1899, upon the proposition of Mr. St. John, to substitute silver certificates for legal tender and national bank notes to increase the coinage of the silver dollar; together with letters and papers expressing the individual views of the members of the Council in regard to the proposition. N. Y., 1899. 40 pp., 9 x 6, b. p. Zj-193, p. 405.
- 173.1 **AMERICAN CERAMIC SOCIETY.** Transactions, containing the papers and discussions of the annual meeting; 3d-4th; 1901-02. Columbus, O., 1901-02. 2 v., 9 x 6, pap.
- 183.3 **AMERICAN ELECTROCHEMICAL SOCIETY.** Officers, constitution and catalogue of members; 1902. Easton, 1902. 1 v., 9 x 6, pap.
- 183.2 — Transactions; 1902 (v. 1-2). Phil., 1902. 2 v., il., 9 x 6, cl.
- AMERICAN GEOGRAPHICAL SOCIETY.** Journal; 1890 (v. 22). Note: Incomplete. N. Y., 1890. 1 v., 9 x 7, b. p. Za-37, p. 91.
- 33.6 **AMERICAN INSTITUTE OF ARCHITECTS.** Address of Robert S. Peabody, President, A. I. A., delivered at the 35th annual convention of the American Institute of Architects in Buffalo, N. Y., Oct. 3d, 1901. Wash., 1902. 10 pp. 10 x 7, pap.
- 33.1 — Proceedings of the annual convention; 4th, 6th-10th, 25th-26th, 34th-35th; 1870, '72-76, '91-92, 1900-01. Wash., 1871-1902. 10 v., 10 x 7, pap.
- 33.5 — Quarterly bulletin containing index of literature from the publications of architectural societies and periodicals on architecture and allied subjects; April, 1900-Jan., '02 (v. 1-2). Wash., 1900-02. 2 v., 10 x 7, unbound.
- 4.4 **AMERICAN INSTITUTE OF ELECTRICAL ENGINEERS.** Catalogue of membership; geographical location of membership; constitution; 1902. Note: For constitution and list of members prior to 1902, see Sa3-4.1. N. Y., 1902. 1 v., 9 x 6, pap.
- 4.1 — Transactions; 1900-01 (v. 17-18). Note: Contains list of members. For list of members subsequent to 1901, see Sa3-4.4. N. Y., 1901-02. 2 v., il., 9 x 6, cl.

Sa3 UNITED STATES—(Continued).

- 8.5 **AMERICAN INSTITUTE OF MINING ENGINEERS.** Bulletin; No. 2. N. Y., 1900. 1 v., 9 x 6, pap.
- 1.12 — Discussions on technical education at the Washington meeting of the American Institute of Mining Engineers, Feb. 22d and 23d, 1876, and at a joint meeting of the American Society of Civil Engineers and the American Institute of Mining Engineers at Philadelphia on June 19th and 20th, 1876. N. Y., 1876. 146 pp., 10 x 6, pap.
- 8.2 — Officers, members, rules, etc.; 1900-01. Phil., 1900-01. 2 v., 9 x 6, pap.
- 8.1 — Transactions; 1899-1900 (v. 29-30). N. Y., 1900-01. 2 v., il., 9 x 6, ½ mor.
- 8.1c — Same; Contents and index; v. 1-30. N. Y., 1888-1902. 4 v. in 1, 9 x 6, cl.
- 84.1 **AMERICAN IRON AND STEEL ASSOCIATION.** Annual statistical report; containing statistics of the iron and steel and related industries of the United States; also, a brief review of their present condition; also, statistics of the iron and steel industries of foreign countries; 1897-1901. Phil., 1898-1902. 5 v., 9 x 6, pap.
- 84.2 — Bulletin (bi-weekly); 1900-01 (v. 34-35). Phil., 1900-01. 2 v., 15 x 10, unbound.
- 84.13g — Directory to the iron and steel works of the United States; to which is added a complete list of the iron and steel works of Canada; corrected to Dec. 31st, 1901. ed. 15. Phil., 1901. 15 + 428 pp., 9 x 6, cl.
- 84.14 — History of the manufacture of armor plate for the United States Navy. Phil., 1899. 33 pp., pl., 10 x 8, pap.
- AMERICAN METROLOGICAL SOCIETY.** Metric system; detailed information as to laws, practice, etc. N. Y., 1890. 15 pp., 9 x 6, b. p. Bf-34, p. 693.
- 88.2 **AMERICAN RAILWAY ASSOCIATION.** Proceedings of the General Time Convention, Apr., 1887-Apr., 1889; Oct., 1890. no place, 1887-90. 6 v., 9 x 7, pap.
- 114.2 **AMERICAN RAILWAY ENGINEERING AND MAINTENANCE-OF-WAY ASSOCIATION.** Proceedings of the annual convention; 1st-3d. 1900-02. Note: Contains also constitution, list of members, officers, committees, etc. no place. 1900-02. 3 v., por., pl., tab., 9 x 6, cl., pap.
- 155.1 **AMERICAN RAILWAY MASTER MECHANICS' ASSOCIATION.** Report of proceedings of the annual convention; 4th, 19th-31th; 1871, '86-1901. Chic., 1886-1901. 17 v. in 16, pl., 9 x 6, ¾ ro.
- 155.1a — Same; Index; v. 1-33. Chic., 1901. 206 pp., 9 x 6, ¾ mor.
- 27.1 **AMERICAN SOCIETY FOR THE PREVENTION OF CRUELTY TO ANIMALS.** Annual report; 35th-36th; 1900-01. N. Y., 1901-02. 2 v., il., 9 x 6, pap.
- 1.15 **AMERICAN SOCIETY OF CIVIL ENGINEERS.** American engineering as illustrated by this Society at the Paris Exposition of 1878; comp. by George S. Morrison, Edward P. North, John Bogart, a Committee appointed by the Society to prepare the exhibit. N. Y., 1878. 106 pp., il., pl., 9 x 6, pap.
- 1.17 — Buffalo convention: Report of Standard Time Committee. no place, 1884. 7 pp., il., 8 x 6, pap.
- 1.11 — Catalogue of the library, June, 1900; prepared by the Secretary under the direction of the Library Committee. N. Y., 1900. 703 pp., 9 x 6, ¾ ro.
- 1.13 — Constitution, by-laws, and act of incorporation. N. Y., 1869. 15 pp., 8 x 6, pap.
- 1.12 — Discussions on technical education at the Washington meeting of the American Institute of Mining Engineers, Feb. 22d and 23d, 1876, and at a joint meeting of the American Society of Civil Engineers and the American Institute of Mining Engineers at Philadelphia on June 19th and 20th, 1876. N. Y., 1876. 146 pp., 10 x 6, pap.
- 1.16 — Documents on time reform issued by the Committee on Uniform Standard Time; additional list of replies favorable to the general adoption of the 24 o'clock system throughout North America. no place, no date. 7 pp., 8 x 6, pap.
- 1.14 — Memoir upon rivers and harbors: by Theo. G. Ellis, Chairman of the Centennial Commission of the American Society of Civil Engineers, and Sub-Committee on Rivers and Harbors. no place, 1876. 169 pp., 11 x 8, pap.
- 1.21 — Monthly list of recent engineering articles of interest; Mar., 1899-date. N. Y., 1899-date. 12 v., 11 x 7, ½ ro.
- 1.2 — Proceedings (monthly except June and July); 1900-01 (v. 26-27.) Note: Contains Constitution and List of Members. N. Y., 1900-01. 2 v., 9 x 6, ½ mor.
- 1.20 — Records of the Southern excursion of the Society; comp. fr. sketches and correspondence by Frank H. Taylor. no place, 1877. 32 pp., il., 10 x 7, pap.
- Report of the Special Committee on Uniform Standard Time. no place, 1889. 21 pp., il., 9 x 6, b. p. Bf-34, p. 619.
- 1.18 — Some things in and about Buffalo: A souvenir of the annual convention of the American Society of Civil Engineers held at Buffalo, N. Y., June 10th-13th, 1884. Buffalo Merchants' Exchange. Buffalo, 1884. unpagd, pl., 7 x 9, pap.

Sa3 UNITED STATES—(Continued).

- 1.19 —Souvenir of the twentieth annual convention of the Society held in the City of Milwaukee, June 27th to July 3d, 1888. Milwaukee, 1888. 8 pp., pl., 11 x 14, $\frac{3}{4}$ ro.
- 1.1 —Transactions; July, 1900-Aug., '02 (v. 44-48). N. Y., 1900-02. 5 v., il., 9 x 6, $\frac{1}{2}$ mor.
- 1.1b —Same; Index; v. 1-45; 1867-1901. N. Y., 1901. 244 pp., 9 x 6, $\frac{1}{2}$ mor.
- 2.2 **AMERICAN SOCIETY OF MECHANICAL ENGINEERS.** Catalogue; officers, members and rules; 22d-23d; 1901-Jan., '02. N. Y., 1901-02. 3 v., 9 x 6, pap., ro.
- 2.1 —Transactions; 1900-02 (v. 21-23). N. Y., 1900-02. 3 v., il., pl., tab., 9 x 6, $\frac{1}{2}$ mor.
- 171.1 **AMERICAN SOCIETY OF MUNICIPAL IMPROVEMENTS.** Proceedings of the annual convention; 1st-8th; 1894-1901. Milwaukee, 1895-1901. 7 v., il., pl., tab., 9 x 6, pap.
- 6.1 **AMERICAN WATER-WORKS ASSOCIATION.** Report of proceedings of the annual meeting; 8th, 21st-22d; 1888, 1901-02. Hannibal, 1888-1902. 3 v., il., 9 x 6, pap.
- 6.5 —Report of the Special Committee on Electrolysis. no place, 1900. unpag., 8 x 6, pap.
- 66.1 **ANTHRACITE COAL OPERATORS' ASSOCIATION.** Association letter (monthly); 1900-01. N. Y., 1900-01. 2 v., 10 x 6, pap.
- 7.1 **ASSOCIATION OF CIVIL ENGINEERS OF CORNELL UNIVERSITY.** Transactions; 1901-02 (v. 9-10). Ithaca, 1901-02. 2 v., il., 9 x 6, pap.
- 5.1 **ASSOCIATION OF ENGINEERING SOCIETIES.** Journal (monthly); 1899-June, 1902 (v. 22-28). Phil., 1899-1902. 7 v., il., 9 x 6, $\frac{1}{2}$ mor.
- 182.2 **ASSOCIATION OF NORTH AMERICAN RAILROAD SUPERINTENDENTS.** Proceedings of the meeting; 17th; 1889. Bost., 1889. 1 v., pl., 10 x 7, pap.
- 45.1 **ASSOCIATION OF RAILWAY SUPERINTENDENTS OF BRIDGES AND BUILDINGS.** Proceedings of the annual convention; 1st, 9th-11th; 1891, '99-1901. Concord, N. H., 1891-1901. 4 v., il., 9 x 6, $\frac{1}{2}$ ro.
- ASSOCIATION OF THE BAR OF THE CITY OF NEW YORK.** Charter, constitution and by-laws, and list of officers and members. N. Y., 1876. 47 pp., 9 x 6, b. p. Za-39, p. 283.
- Constitution and address. N. Y., 1870. 16 pp., 9 x 6, b. p. Za-42, p. 1.
- Report of proceedings. N. Y., 1879. 40 pp., 9 x 6, b. p. Za-42, p. 17.
- BAR ASSOCIATION OF THE CITY OF NEW YORK.** See Association of the Bar of the City of New York.
- 34.5 **BOSTON SOCIETY OF CIVIL ENGINEERS.** Constitution and by-laws and list of members; 1901-02. Bost., 1901-02. 2 v., 9 x 6, pap.
- 62.1 **BROOKLYN ENGINEERS' CLUB.** Proceedings, constitution and by-laws, with list of members; 1898-1901. Brooklyn, 1899-1902. 4 v., il., 9 x 6, pap.
- CENTRAL TRAFFIC ASSOCIATION.** Report of the Chairman to General Managers of all railways in the territory of the Association, with suggestions touching the increase of the efficiency of the same. Chic., 1888. 11 pp., 9 x 6, b. p. no title-page. Zj-193, p. 445.
- 177.1 **CITY CLUB OF NEW YORK.** Constitution, by-laws and house rules, officers, committees and members; 1902. N. Y., 1902. 1 v., 7 x 5, cl.
- 131.3 **CIVIL ENGINEERS' CLUB OF CLEVELAND.** Visitors' directory to the engineering works and industries of Cleveland, Ohio. no place, 1898. 83 pp., il., 7 x 4, cl.
- 52.1 **CONNECTICUT CIVIL ENGINEERS' AND SURVEYORS' ASSOCIATION.** Proceedings of the meetings; 1897-99, 1901-02. New London, 1897-1902. 5 v. in 3, il., 9 x 6, $\frac{1}{2}$ skiv.
- CONNECTICUT SOCIETY OF CIVIL ENGINEERS.** See Connecticut Civil Engineers' and Surveyors' Association.
- 8.2 **ENGINEERING ASSOCIATION OF THE SOUTH.** Proceedings; Dec., 1899-Nov., 1901 (v. 11-12). Nashville, 1900-01. 2 v., il., pl., 9 x 6, pap.
- 8.1 —Transactions; 1899-1900. Nashville, 1899-1900. 2 v., pl., 9 x 6, pap.
- 177.2 **ENGINEERS' ASSOCIATION OF RHODE ISLAND.** Constitution and by-laws; 1886. Providence, 1886. 1 v., 5 x 4, cl.
- 137.2 **ENGINEERS' CLUB OF CINCINNATI.** Secretary's report; 1900. no place, 1900. 1 v., 9 x 6, pap. no title-page.
- 122.1 **ENGINEERS' CLUB OF NEW YORK.** Constitution, rules, officers and members; 1892, 1901-02. N. Y., 1892-1902. 3 v., 7 x 4, cl.
- 136.4 **ENGINEERS' CLUB OF KANSAS CITY.** Constitution and by-laws; 1887. Kansas City, 1887. 1 v., 8 x 5, pap.
- 9.3 **ENGINEERS' CLUB OF PHILADELPHIA.** Directory, constitution and by-laws; containing officers, committees, members' names and addresses, etc.; 1902. Phil., 1902. 1 v., 5 x 3, ro.

Sa3 UNITED STATES.—(*Continued*).

- 9.1 — Proceedings (quarterly); 1899-1901 (v. 16-18). Phil., 1899-1901. 3 v., il., 9 x 6, $\frac{1}{2}$ mor.
- 48.2 **ENGINEERS' CLUB OF ST. LOUIS.** Annual bulletin, annual program, annual reports of officers and committees, constitution, by-laws, list of officers and members; 1st-7th; 1896-1902. St. Louis, 1896-1902. 7 v., 9 x 6, pap., cl.
- 10.2 **ENGINEERS' SOCIETY OF WESTERN PENNSYLVANIA.** Charter, by-laws and list of members; 1901. Pittsburg, 1901. 1 v., 9 x 6, pap.
- 10.6 — Our Society: Response to a toast at the annual banquet, Feb. 21st, 1902, by Chas. F. Scott, President of the Society. no place, 1902. 15 pp., 9 x 5, pap.
- 10.1 — Proceedings; 1900-01 (v. 16-17). Pittsburg, 1900-01. 2 v., il., 9 x 6, pap.
- 174.1 **ESSAYONS CLUB OF THE CORPS OF ENGINEERS.** Printed papers; 1868-82 (Nos. 1-24, 28-50). no place, 1868-82. 18 v., 11 x 9, pap.
- 70.2 **FIELD COLUMBIAN MUSEUM.** Annual report of the Director to the Board of Trustees; Sept., 1899-1901. (Report Ser.) Chic., 1900-01. 2 v., il., 9 x 6, pap.
- 11.8 **FRANKLIN INSTITUTE.** Commemorative exercises at the fiftieth anniversary of the Institute, held on Friday evening, Feb. 6th, 1874, at the Musical Fund Hall. Phil., 1874. 96 pp., 9 x 6, cl.
- 11.9 — Franklin Institute of the State of Pennsylvania for the Promotion of the Mechanic Arts: A sketch of its organization and history. W. H. Wahl, comp. Phil., 1895. 103 pp., 9 x 6, pap.
- 11.1 — Journal; July, 1899-June, 1902 (v. 148-153). Phil., 1899-1902. 6 v., il., pl., 9 x 6, $\frac{3}{4}$ mor.
- 11.11 — Pennsylvania State Weather Service: Monthly weather review; Apr.-Oct., 1893. Phil., 1893. 1 v., map, tab., 9 x 6, pap.
- 11.10 — Report of the twenty-seventh exhibition of American manufactures, held in the City of Philadelphia, from Oct. 6th to Nov. 12th, 1874, by the Franklin Institute of the State of Pennsylvania, for the Promotion of the Mechanic Arts. Phil., 1874. 236 + 48 pp., il., pl., 9 x 6, pap.
- 175.1 **GEOGRAPHICAL SOCIETY OF PHILADELPHIA.** Charter, by-laws, list of members; Jan., 1902. Phil., 1902. 1 v., 9 x 6, pap.
- HARVARD LAW SCHOOL ASSOCIATION.** Report of the organization and of the first general meeting at Cambridge, Nov. 5th, 1886, on the first day of the celebration of the two hundred and fiftieth anniversary of the founding of Harvard College. Bost., 1887. 99 pp., 9 x 6, b. p. Ye-283, p. 299.
- 12.1 **ILLINOIS SOCIETY OF ENGINEERS AND SURVEYORS.** Annual report; being the proceedings of the Society at its annual meeting; 15th-17th; 1900-02. Urbana, 1900-02. 3 v., 9 x 6, $\frac{1}{2}$ ro.
- 86.1 **INTERNATIONAL ASSOCIATION FOR TESTING MATERIALS.** Bulletin (American Section); 19th-28th; Sept., 1900-May, '02. no place, 1900-02. 2 v., 9 x 6, pap.
- 86.1 **LAKE MOHONK CONFERENCE ON INTERNATIONAL ARBITRATION.** Report of the annual meeting; 6th-8th; 1900-02. no place, 1900-02. 3 v., 9 x 6, pap.
- 181.2 **LAKE SUPERIOR MINING INSTITUTE.** Proceedings of the annual meeting; 5th; 1898. no place, 1898. 1 v., pl., tab., 9 x 6, cl.
- MASTER CAR-BUILDERS ASSOCIATION.** Report of the Committee on Standard Screw Threads. N. Y., 1882. 19 pp., 9 x 6, b. p. Af-304, p. 109.
- 51.1 **MICHIGAN ENGINEERING SOCIETY.** Michigan Engineers' Annual, containing the proceedings of the Society; 1880-81, '97-1901. Battle Creek, Mich., 1893-1901. 6 v., il., tab., 9 x 6, $\frac{1}{2}$ ro.
- 189.1 **MICHIGAN SCHOOL MASTERS' CLUB.** Proceedings at the meeting; 35th; 1900. Ann Arbor, 1901. 1 v., 10 x 7, pap.
- MIDDLE AND WESTERN STATES RAILROAD FREIGHT ASSOCIATION.** Report of the proceedings of the meeting of the Committee appointed by the General Freight Agents at Indianapolis, Jan. 13th, 1881, held at Cleveland, Ohio, Jan. 20th, 1881. Toledo, 1881. 7 pp., 9 x 6, b. p. Af-304, p. 379.
- 13.1 **MILITARY SERVICE INSTITUTION OF THE UNITED STATES.** Journal (bi-monthly); July, 1900-Nov. '01 (v. 27-29). Governor's Island, 1900-01. 3 v., 9 x 6, $\frac{1}{2}$ ro.
- 176.1 **NATIONAL SOCIETY OF THE SONS OF THE AMERICAN REVOLUTION.** National register, comp. and published under the auspices of the Publication Committee; by Louis H. Cornish. N. Y., 1902. 1035 pp., por., pl., 10 x 7, cl.
- 48.1 **NEW ENGLAND COTTON MANUFACTURERS' ASSOCIATION.** Transactions; Apr., 1886; Oct., 1900-Apr., '02 (Nos. 40, 69-72). Waltham, 1886-1902. 5 v., il., 10 x 7, pap., bds.
- 56.1 **NEW ENGLAND RAILROAD CLUB.** Proceedings of the meeting; Jan., 1894. Bost., 1894. 1 v., 9 x 6, pap.
- 14.1 **NEW ENGLAND WATER-WORKS ASSOCIATION.** Journal (quarterly); 1900-01 (v. 14-15). New London, 1900-01. 2 v., il., 9 x 6, $\frac{1}{2}$ mor.

Sa3 UNITED STATES—(Continued).

- NEW YORK HISTORICAL SOCIETY.** Memorial; transmitted by the Governor to the New York Legislature. Note: Memorial relative to procuring the originals or copies of all documents, etc., relating to the colonial or revolutionary period of the United States history, in the government archives of England and Holland. Albany, 1899. 5 pp., 9 x 6, b. p. no title-page. Cfh-16, p. 379.
- 57.1 **NEW YORK RAILROAD CLUB.** Proceedings (monthly); Dec., 1888; Jan., '91; Jan., '93; Apr., Dec., '94; Jan., May, '95; Jan., '96; Jan., Mar.-Dec., 1900-01. Note: For Proceedings, Jan., 1888, see Aa-34, p. 25. N. Y., 1888-1901. 5 v., il., 9 x 6, unbound.
- 140.1 **NORTHWEST RAILWAY CLUB.** Official proceedings; Mar., 1895; Jan.-Apr., Sept.-Oct., 1901; Feb., '02 (v. 1, No. 3; v. 6, Nos. 5-8; v. 7, Nos. 1-2, 6). St. Paul, 1895-1902. 8 v., il., 9 x 6, pap.
- 179.2 **OHIO VALLEY IMPROVEMENT ASSOCIATION.** Proceedings, annual convention; 6th; 1900. Cin., 1900. 1 v., map, 9 x 6, pap.
- 170.1 **PHILOSOPHICAL SOCIETY OF WASHINGTON.** Report of the Committee on Mathematical Science; 1899. Wash., 1900. 1 v., 10 x 6, pap.
- RAILWAY CLEARING-HOUSE ASSOCIATION.** Report of proceedings; 1882. Bost., 1882. 1 v., 9 x 6, b. p. Af-304, p. 137.
- RAILWAY EMPLOYEES' MUTUAL BENEFIT ASSOCIATION OF THE WEST.** Proceedings, by-laws and articles of association, annual convention; 1878. Chic., 1878. 1 v., 6 x 4, b. p. Af-304, p. 327.
- 40.1 **ROADMASTERS' ASSOCIATION OF AMERICA.** Proceedings of the annual convention; 3d-4th, 6th, 18th; 1885-86, '91, 1900-01. Note: In 1900, name changed to Roadmasters' and Maintenance of Way Association of America. Sterling, Ill., 1885-1902. 5 v., il., 9 x 6, pap.
- 141.1 **ST. LOUIS RAILWAY CLUB.** Official proceedings; Mar., May-July, 1901; Apr.-May, '02 (v. 5, No. 11; v. 6, Nos. 1-3, 12; v. 7, No. 1). St. Louis, 1901-02. 8 v., 9 x 6, pap.
- 19.1 **SMITHSONIAN INSTITUTION.** Annual report of the Board of Regents showing the operations, expenditures and condition of the Institution for the year ending June 30th, 1898-1900. Note: Contains reports of the United States National Museum. Wash., 1899-1901. 6 v., il., 9 x 6, cl.
- 15.2 **SOCIETY OF NAVAL ARCHITECTS AND MARINE ENGINEERS.** Constitution and by-laws and list of members; 1901. N. Y., 1901. 1 v., 5 x 4, skiv.
- 15.1 —Transactions; 1900-01 (v. 8-9). Wash., 1900-01. 2 v., pl., 11 x 8, cl.
- 180.2 **STREET-RAILWAY ASSOCIATION OF THE STATE OF NEW YORK.** Report of the annual meeting; 1st, 3d-16th; 1883, '85-98. N. Y., 1883-98. 15 v., 9 x 6, pap.
- 100.1 **TEXAS ACADEMY OF SCIENCE.** Transactions; together with the Proceedings; 1896-1900 (v. 1-4, Pt. 1). Note: Pts. 1-4 of v. 1 wanting. Austin, 1897-1901. 4 v., in 5, por., 10 x 7, pap.
- UNION LEAGUE CLUB OF NEW YORK.** Report of the Committee on Political Reform, on "civil service", May meeting, 1888. no place, 1888. 14 pp., 9 x 6, b. p. no title-page. Za-38, p. 75.
- UNITED STATES—NATIONAL MUSEUM.** Report for the year ending June 30th, 1896-1900. (See Sa3-19.1. Annual report of the Smithsonian Institution.)
- 16.1 **UNITED STATES NAVAL INSTITUTE.** Proceedings (quarterly); 1900-01 (v. 26-27). Annapolis, 1900-01. 2 v., il., 9 x 6, unbound.
- 92.1 **WESTERN NEW YORK CAR SERVICE ASSOCIATION.** Annual report; 1st-9th 11th-18th; for the fiscal year ending June 30th, 1890-98, 1900-02. no place, 1890-1902. 12 v., 9 x 5, pap.
- 17.1 **WESTERN RAILWAY CLUB.** Official proceedings (monthly); Sept., 1899-May, 1901 (v. 12-13). Chic., 1899-1901. 2 v., il., 9 x 6, pap., cl.
- 18.3 **WESTERN SOCIETY OF ENGINEERS.** Constitution, by-laws and list of members; 1901-02. Chic., 1901-02. 2 v., 9 x 6, pap.
- 18.2 —Journal (bi-monthly); 1900-01 (v. 5-6). Chic., 1900-01. 2 v., il., 9 x 6, ¼ ro.

Sa4 WEST INDIES.

- 1.2 **ASOCIACION DE INGENIEROS Y ARQUITECTOS DE LA ISLA DE CUBA.** Estatutos. Habana, 1900. 8 pp., 9 x 6, pap.

SOCIETY PUBLICATIONS—SOUTH AMERICA.

Sbt ARGENTINE REPUBLIC.

- 4.3 **INSTITUTION OF ENGINEERS OF THE RIVER PLATE.** Articles of association. Buenos Aires, 1899. 8 pp., 8 x 5, pap.
- 4.1 —Journal; 1899-1900 (v. 1). Buenos Aires, 1899-1900. 1 v., 7 x 5, unbound.

240 SOCIETY PUBLICATIONS—SOUTH AMERICA.

Sb1 ARGENTINE REPUBLIC—(*Continued*).

- 1.1 **SOCIEDAD CIENTIFICA ARGENTINA.** Anales (monthly); 1900–June, 1902 (v. 49–53). Buenos Aires, 1900–02. 5 v., 10 x 7, unbound.
- 1.1b —Same; Indice general; v. 1–40; 1876–96. Buenos Aires, 1897. 168 pp., 10 x 7, pap.

Sb4 CHILE.

- 1.1 **INSTITUTO DE INGENIEROS.** Anales (monthly); July–Dec., 1900 (v. 18–19, No. 1). Note: Consolidated in 1901 with the Sociedad de Ingeniería as the Instituto de Ingenieros de Chile. Santiago de Chile, 1900–01. 2 v., il., 11 x 7, unbound.
- 4.1 **INSTITUTO DE INGENIEROS DE CHILE.** Anales (monthly); 1901 (v. 1). Santiago, 1901. 1 v., 11 x 7, unbound.
- 2.1 **SOCIEDAD DE INGENIERIA.** Boletín; 1894–98 (v. 1–4). Note: Consolidated in 1901 with the Instituto de Ingenieros as the Instituto de Ingenieros de Chile. Santiago, 1896–99. 4 v. in 1, il., 10 x 7, ½ mor.
- 3.1 **SOCIEDAD NACIONAL DE MINERIA.** Padron jeneral de minas de la República de Chile, correspondiente a 1899. Santiago, 1901. 1 v., 14 x 11, unbound.

SOCIETY PUBLICATIONS—EUROPE.

Sd1 AUSTRIA.

- 1.9 **OESTERREICHISCHER INGENIEUR- UND ARCHITEKTEN-VEREIN.** Katalog der Bibliothek. Wien, 1900. 15 + 418 pp., 9 x 6, pap.
- 1.3 —Verzeichniss der Mitglieder; 1901 (v. 31). Wien, 1901. 1 v., 9 x 6, pap.
- 1.6 —Zeitschrift (weekly); 1849–72, 1900–01 (v. 1–24, 52–53). Wien, 1849–1901. 26 v., 14 x 11, dk.

Sd2 BELGIUM.

- 1.1 **ASSOCIATION DES INGENIEURS SORTIS DES ECOLES SPECIALES DE Gand.** Annales (quarterly); 1900–01 (v. 23–24). Gand, 1900–01. 2 v., il., 9 x 6, unbound.
- 2.3 **SOCIETE BELGE DES INGENIEURS ET DES INDUSTRIELS.** Liste des membres; 1900–02. Bruxelles, 1901–02. 2 v., 9 x 6, pap.

Sd3 DENMARK.

- 1.1 **TEKNISKE FORENING.** Tidsskrift (monthly); Apr., 1889–Mar., '91; Apr., 1900–Mar., '02 (v. 13–14, 24–25). Kobenhavn, 1889–1902. 4 v., 12 x 10, unbound.

Sd4 FRANCE.

- 3.1 **ASSOCIATION AMICALE DES ANCIENS ELEVES DE L'ECOLE CENTRALE des arts et manufactures.** Annuaire; 1900–01. Paris, 1901–02. 2 v., 9 x 6, pap.
- 3.2 —Bulletin (monthly); Nov., 1899–Oct., 1901 (v. 31–32). Paris, 1899–1901. 2 v., 9 x 6, unbound.
- 6.3 **SOCIETE D'ENCOURAGEMENT POUR L'INDUSTRIE NATIONALE.** Contribution à l'étude des alliages par H.-W. Bakhuys Roozeboom, Ad. Carnot, G. Charpy, H. Le Chatelier, H. Gautier, Ed. Goutal, Guillaume, F. Osmond Roberts Austen, Mme. Sklodowska Curie, sous la direction et le contrôle de la Commission des Alliages, 1896–1900. Paris, 1901. 11 + 517 pp., il., pl., 11 x 9, pap.
- 4.2 **SOCIETE DES INGENIEURS CIVILS DE FRANCE.** Annuaire; 1883–85, '89, 1901–02 (v. 36–38, 42, 54–55). Paris, 1883–1902. 6 v., 9 x 6, pap.
- 4.1 —Mémoires et compte rendu des travaux de la Société; 1900–01. Paris, 1900–01. 4 v., 10 x 6, ½ ro.
- 4.5 —Réceptions des délégués des sociétés techniques et savantes à l'occasion de l'Exposition de 1900. Paris, 1900. 54 pp., 10 x 6, pap.

Sd5 GERMANY.

- 14.2 **ARCHITEKTEN- UND INGENIEUR-VEREIN FÜR NIEDERRHEIN UND WESTfalen.** Mittheilungen; 1882–84. Note: 1883–84 incomplete. Köln, 1882. 3 v., 9 x 6, unbound.
- 16.2 **ARCHITEKTEN- UND INGENIEUR-VEREIN ZU HANNOVER.** Zeitschrift; 1880, '89, '95, 1900–01 (v. 21, 35, 41, 46–47). Note: v. 46 (1900) incomplete. Hannover, 1880–1901. 5 v., 14 x 10, unbound.
- 1.4 **DEUTSCHER BETON-VEREIN and VEREIN DEUTSCHER PORTLAND-Cement-Fabrikanten.** Deutsche Portland-Cement- und Beton-Industrie auf der Düsseldorfer Ausstellung, 1902. Berlin, 1902. 211 pp., il., por., 9 x 6, pap.
- 6.3 **SÄCHSISCHER INGENIEUR- UND ARCHITEKTEN-VEREIN.** Mittheilungen; 1877–80. Leipzig, 1878–81. 4 v., 9 x 6, pap.

Sd5 GERMANY—(Continued).

- 6.4 —Protokolle der ordentlichen Hauptversammlung; 88d, 88th-89th; Aug., 1874, May-Dec., '76. Dresden, 1874-77. 8 v., pl., tab., 9 x 6, pap.
- 5.1 **VERBAND DEUTSCHER ARCHITEKTEN- UND INGENIEUR-VEREINE.** Mittheilungen; 1885-86 (v. 1, Nos. 1-8). no place, 1885-86. 1 v., 8 x 5, pap.
- 2.2 **VEREIN DEUTSCHER EISENBAHN-VERWALTUNGEN.** Organ für die Fortschritte des Eisenbahnwesens in technischer Beziehung; ed. by Edmund Heusinger von Waldegg; 22d year; new ser., v. 4. Wiesbaden, 1867. 1 v., 12 x 9, ¾ mor.
- 18.1 **VEREIN DEUTSCHER EISENHUTTENLEUTE.** Gemeinfassliche Darstellung des Eisenhüttenwesens. ed. 4. Düsseldorf, 1901. 12 + 144 pp., il., 9 x 6, cl.
- 3.4 **VEREIN DEUTSCHER INGENIEURE.** Festschrift zur 42. Hauptversammlung in Kiel, Juni, 1901. no place, 1901. 231 pp., il., pl., maps, 9 x 12, cl.
- 3.5 —Mittellungen über Forschungsarbeiten auf dem Gebiete des Ingenieurwesens insbesondere aus den Laboratorien der technischen Hochschulen. Berlin, 1901. 3 v., il., pl., tab., 11 x 8, pap.
- 3.3 —Zeitschrift (weekly); 1857-84, 1900-01 (v. 1-28, 44-45). Berlin, 1857-1901. 30 v. in 39, il., pl., 12 x 9, unbound, dk., ¼ mor.
- 1.1 [**VEREIN DEUTSCHER PORTLAND-CEMENT-FABRIKANTEN.** Protokoll der Verhandlungen; 1900-01. Berlin, 1900-01. 2 v., il., 9 x 6, unbound.
- 1.4 **VEREIN DEUTSCHER PORTLAND-CEMENT-FABRIKANTEN und DEUTSCHER Beton-Verein.** Deutsche Portland-Cement-und Beton-Industrie auf der Düsseldorf Ausstellung, 1902. Berlin, 1902. 211 pp., il., por., 9 x 6, pap.

Sd6 GREAT BRITAIN.

- 2.1 **BRITISH ASSOCIATION FOR THE ADVANCEMENT OF SCIENCE.** Report of the meeting; 26th, 28th, 31st-32d, 37th, 40th-42d, 44th-46th, 51st, 70th-71st; 1856, '58, '61-62, '67, '70-72, '74-76, '81, 1900-01. Lond., 1857-1901. 14 v., 9 x 6, ¾ sh.
- 2.1a —Same; Index; 1881-80. Lond., 1884. 363 pp., 9 x 6, ¾ sh.
- 23.2 **BRITISH IRON TRADE ASSOCIATION.** American industrial conditions and competition: Reports of the Commissioners appointed by the Association to enquire into the iron, steel and allied industries of the United States; ed. by J. Stephen Jeans. Lond., 1902. 26 + 560 pp., il., pl., maps, 10 x 6, cl.
- INSTITUTE OF CHARTERED ACCOUNTANTS IN ENGLAND AND WALES.** Charter of incorporation and bye-laws. Lond., 1888. 68 pp., 8 x 5, b. p. Za-40, p. 17.
- 9.1 **INSTITUTE OF MARINE ENGINEERS.** Transactions; 1900-01 (v. 11-12). Stratford, 1900-01. 2 v., il., pl., 8 x 5, ¾ cf.
- 1.3 **INSTITUTION OF CIVIL ENGINEERS.** Charter, supplemental charters, by-laws and list of members; 1900, '02. Lond., 1900-02. 2 v., 9 x 6, cl.
- 1.4 —List of members; Jan., 1901-July, '02. Lond., 1901-02. 7 v., 9 x 6, pap.
- 1.2 —Minutes of proceedings, with other selected and abstracted papers; 1900-02 (v. 142-149). Lond., 1900-02. 8 v., 9 x 6, cl.
- 5.1 **INSTITUTION OF CIVIL ENGINEERS OF IRELAND.** Transactions; 1844-74, '98 (v. 1-10, 27). Dublin, 1845-98. 11 v. in 13, il., 9 x 6, cl., ½ ro.
- 7.1 **INSTITUTION OF ENGINEERS AND SHIPBUILDERS IN SCOTLAND.** Transactions; 1900-02 (v. 43-45). Glasgow, 1900-02. 3 v., il., pl., 9 x 6, cl.
- 11.3 **INSTITUTION OF JUNIOR ENGINEERS.** Course of six lectures, with discussions, on the management of engineering workshops, delivered by Arthur H. Barker, Feb. to Apr., 1901. Lond., 1901. 8 + 194 pp., 14 pl., tab., 9 x 6, ½ ro.
- 11.1 —Record of transactions; 1900-01 (v. 10-11). Lond., 1900-01. 2 v., il., pl., 9 x 6, cl.
- 17.3 **INSTITUTION OF MECHANICAL ENGINEERS.** List of members; 1901-02, no place, 1901-02. 2 v., 9 x 6, pap.
- 17.1 —Proceedings; 1900-01. Lond., 1900-01. 2 v., il., pl., 9 x 6, ½ ro.
- 6.1 **IRON AND STEEL INSTITUTE.** Journal; 1900-02 (v. 52-61). Lond., 1900-02. 4 v., il., pl., 9 x 6, cl.
- 6.1a —Same; General index; 1869-1900. Note: Contains a history of the development of the Iron and Steel Institute. Lond., 1869-1902. 3 v., 9 x 6, cl.
- 6.1b —Same; Name index; 1869-96; v. 1-50. Lond., 1898. 16 + 564 pp., 9 x 6, cl.
- 6.4 —Rules and list of members; 1901. Lond., 1901. 1 v., 9 x 6, pap.
- 4.1 **LIVERPOOL ENGINEERING SOCIETY.** Transactions; 1900-02 (v. 21-23). Liverpool, 1900-02. 3 v., 9 x 6, pap., ½ sk.
- 31.2 **MANCHESTER STEAM USERS' ASSOCIATION.** Memorandum by the Chief Engineer; 1901. Manchester, 1901. 1 v., il., 9 x 6, pap.
- 8.6 **MIDLAND INSTITUTE OF MINING, CIVIL AND MECHANICAL ENGINEERS.** Mechanical ventilators: Report of the Committee of the North of England Institute of Mining and Mechanical Engineers, and the Midland Institute of Mining, Civil and Mechanical Engineers; by M. Walton Brown. Lond., 1900. 96 pp., pl., 10 x 6, pap.

Sd6 GREAT BRITAIN—(Continued).

- 3.1 MINING INSTITUTE OF SCOTLAND.** Transactions; 1900-01 (v. 21-22, 24). Note: Vol. 24 contains the Proceedings of Section VI—Mining and Metallurgy of the International Engineering Congress, Glasgow, 1901. Hamilton, 1900-02. 3 v., 9 x 6, pap., $\frac{1}{2}$ ro.
- 3.1a** —Same; Index; 1879-91 (v. 1-12). Hamilton, 1891. 14 pp., 9 x 6, pap.
- 8.2 NORTH OF ENGLAND INSTITUTE OF MINING AND MECHANICAL ENGINEERS.** Annual report of the Council, accounts, list of Council, officers and members, and the charter and bye-laws; together with the bye-laws of the Federated Institution of Mining Engineers; 1895, '99-1902. Newcastle-upon-Tyne, 1895-1902. 5 v., 10 x 6, pap.
- 8.6** —Mechanical ventilators: Report of the Committee of the North of England Institute of Mining and Mechanical Engineers, and the Midland Institute of Mining, Civil and Mechanical Engineers; by M. Walton Brown. Lond., 1900. 96 pp., pl., 10 x 6, pap.
- 8.7** —Subject-matter index of mining, mechanical and metallurgical literature; 1900. Newcastle-upon-Tyne, 1902. 1 v., 10 x 6, pap.
- 8.1** —Transactions; 1852-54, '58-68, 1900 (v. 1-2, 7-17, 49). Newcastle-upon-Tyne, 1869-1900. 14 v., il., pl., 10 x 6, $\frac{1}{2}$ ro.
- 8.1a** —Same; General index; 1852-76 (v. 1-25). Newcastle-upon-Tyne, 1877. 143 pp., 10 x 6, $\frac{3}{4}$ cf.
- 8.1b** —Same; General and subject matter indices; 1852-89 (v. 1-38). Newcastle-upon-Tyne, 1902. 8 + 244 pp., 10 x 6, pap.
- 10.1 NORTHEAST COAST INSTITUTION OF ENGINEERS AND SHIPBUILDERS.** Transactions; 1900-02 (v. 16-18). Lond., 1900-02. 3 v., 10 x 6, $\frac{3}{4}$ mor.
- 14.1 PHILOSOPHICAL SOCIETY OF GLASGOW.** Proceedings; 1899-1902 (v. 31-33). Glasgow, 1900-02. 3 v., il., pl., 9 x 6, pap.
- RAILWAY BENEVOLENT INSTITUTION.** Proceedings of the meetings called for the purpose of organizing an institution for the relief of necessitous children and widows of railway salaried officers, Mar., 1858. Lond., 1858. 15 pp., 8 x 5, b. p. Ae-307, p. 87.
- 33.1** —Report of the proceedings at the annual dinner, special general meeting and annual general meeting, 1858-83. Note: Includes half-yearly reports. Lond., 1858-83. 32 v. in 3, 7 x 5, $\frac{3}{4}$ sh.
- Rules and regulations, June, 1883. Lond., 1883. 20 pp., 8 x 5, b. p. Ae-307, p. 103.
- 35.1 ROYAL METEOROLOGICAL SOCIETY.** Annual exhibition of instruments, held Mar. 3d to 19th, 1891: Catalogue of rain gauges, evaporation gauges, &c. Lond., 1891. 12 pp., 9 x 6, pap.
- 12.1 ROYAL UNITED SERVICE INSTITUTION.** Journal; 1900-01 (v. 44-45). Lond., 1900-01. 2 v. in 3, 10 x 6, unbound.
- 24.1 SOCIETY OF ARTS.** Journal (weekly); Nov., 1899-1901 (v. 48-49). Lond., 1899-1901. 2 v., 10 x 7, $\frac{1}{2}$ ro.
- 24.5** —List of the Council and Officers for the 148th Session; 1901-02. Lond., 1902. 1 v., 10 x 7, pap.
- 24.4** —Report of the Conference on Canals and Inland Navigation, held on Thursday and Friday, May 10th and 11th, 1888, with map of English canals. Lond., 1888. 98 pp., map, 10 x 7, pap.
- 27.3 SOCIETY OF CHEMICAL INDUSTRY.** Address by the President, Charles F. Chandler, delivered at the annual general meeting, held in the lecture theatre of the Royal Institution, Albemarle Street, London, W., July 18th, 1900. Lond., 1900. 30 pp., tab., 11 x 8, pap.
- 27.4** —Report of the Sub-Committee on uniformity in analysis of materials for the Portland cement industry. Lond., 1902. 65 pp., 7 x 5, pap.
- 16.1 SOCIETY OF ENGINEERS.** Transactions; 1875, 1900-01. Lond., 1875-1901. 3 v., il., pl., 9 x 6, cl.
- 36.1 SOCIETY OF PATENT AGENTS.** Journal; 1900-01 (v. 1-2). Lond., 1900-01. 2 v., 8 x 5, cl.
- 34.1 STATISTICAL AND SOCIAL INQUIRY SOCIETY OF IRELAND.** Journal; Jan., 1865-Jan., '68; Apr., '69 (v. 4, Pts. 29-34; v. 5, Pt. 36). Dublin, 1868-69. 1 v., 9 x 6, $\frac{1}{2}$ mor.
- UNITED KINGDOM RAILWAY OFFICERS AND SERVANTS' ASSOCIATION.** List of subscribers. Note: Also contains list of subscribers to Railway Orphan Fund. Lond., 1882. 64 pp., 9 x 5, b. p. Ae-307, p. 127.
- Report, balance sheet, accounts, &c.; 1882. Note: Contains report of the Railway Orphan Fund. Lond., 1883. 1 v., 9 x 6, b. p. Ae-307, p. 197.
- Rules. Note: Contains rules for the Railway Provident Society, Railway Officers' and Servants' Sick Fund, and Railway Orphan Asylum Fund. Lond., no date. 56 pp., 8 x 5, b. p. Ae-307, p. 25.

Sd8 ITALY.

- 3.1 **COLLEGIO DEGLI INGEGNERI E DEGLI ARCHITETTI IN PALERMO.** Atti; 1901. Palermo, 1901. 1 v., 11 x 8, unbound.
- 2.1 **SOCIETA DEGLI INGEGNERI E DEGLI ARCHITETTI ITALIANI.** Annali (bi-monthly); 1900-01 (v. 15-16). Roma, 1900-01. 2 v., il., 11 x 7, unbound.

Sd9 NETHERLANDS.

- 2.8 **KONINKLIJK INSTITUUT VAN INGENIEURS.** De Ingenieur (weekly); Orgaan van het Kon. Instituut van Ingenieurs, van de Vereeniging van Delftsche Ingenieurs; 1900-01 (v. 15-16). Note: No. 2 of v. 15 (Jan. 18th, 1900) wanting. Te's-Gravenhage, 1900-01. 2 v., il., 18 x 10, unbound.
- 2.7 — Eerste gedeelte der veiligheidsvoorschriften voor electrische sterkstroominstallaties. Delft, 1900. 29 pp., 3 pl., 6 x 4, cl.
- 2.3b — Register van het Tijdschrift, 1847-1900. Te's-Gravenhage, 1875-1901. 5 v. in 2, 18 x 10, dk.
- 2.3a — Tijdschrift: Notulen; 1869-1900. Note: Contains each year a general report of the work of the Institute with a list of members. Te's-Gravenhage, 1869-1900. 31 v. in 21, 18 x 10, dk.
- 2.3 — Tijdschrift: Verhandelingen; 1869-1901. Te's-Gravenhage, 1869-1901. 32 v. in 23, 18 x 10, dk.
- 2.5 — Vakafdeeling voor werktuig-en scheepsbouw: Jaarverslag; 1899-1900 (Pts. 3-4). no place, no date. 2 v., 10 x 7, pap.
- 1.1 **NEDERLANDSCHE VEREENIGING VOOR ELECTROTECHNIEK.** Notulen; 1896-96 (No. 2). Te's-Gravenhage, 1896. 1 v., 9 x 6, pap.

Sd10 NORWAY.

- 1.1 **NORSKE INGENIOR- OG ARKITEKT-FORENING OG DEN POLYTEKNISKE Forening.** Medlemsfortegnelse; 1898. Christiania, 1898. 1 v., 10 x 6, pap.

Sd11 PORTUGAL.

- 1.1 **ASSOCIACAO DOS ENGENHEIROS CIVIS PORTUGUEZES.** Revista de obras publicas e minas (monthly); 1900 (v. 31). Lisboa, 1900. 1 v., 9 x 6, unbound.

Sd14 SPAIN.

- 1.1 **ASOCIACION DE INGENIEROS INDUSTRIALES DE BARCELONA.** Revista Tecnológico Industrial (monthly); 1900-01 (v. 23-24). Barcelona, 1900-01. 2 v., il., 10 x 7, unbound.

Sd15 SWEDEN.

- 1.1 **SVENSKA TEKNOLOGFÖRENINGEN.** Förteckning öfver ledamöter; 1901-02. Stockholm, 1901-02. 2 v., 8 x 5, pap.

SOCIETY PUBLICATIONS—AUSTRALIA.**Sg**

- 5.2 **AUSTRALASIAN INSTITUTE OF MINING ENGINEERS.** Proceedings: Annual meeting; 1901-02. Melbourne, 1901-02. 2 v., 9 x 6, pap.
- 5.3 — Proceedings: Ordinary meeting; 1900-01. Note: Proceedings for 1901 contains list of members and rules. Melbourne, 1900-01. 2 v., 9 x 6, pap.
- 5.4 — Proceedings: Special meeting at Bendigo, on the occasion of the Victorian Gold Jubilee Exhibition, Mar., 1902. Melbourne, 1902. 18 pp., il., 9 x 6, pap.
- 5.1 — Transactions; 1900-01 (v. 7-8, Pt. 1). Melbourne, 1900-01. 2 v., il., pl., 9 x 6, pap.
- 2.1 **ENGINEERING ASSOCIATION OF NEW SOUTH WALES.** Minutes of proceedings; also act of incorporation, rules and by-laws, and list of members; 1896 (v. 11). Sydney, 1896. 1 v., il., 9 x 6, cl.
- 3.1 **INSTITUTION OF SURVEYORS, NEW SOUTH WALES.** The Surveyor: The journal of the Institution; 1900-01 (v. 13-14). Sydney, 1900-01. 2 v., 10 x 6, ½ ro.
- 1.1 **ROYAL SOCIETY OF NEW SOUTH WALES.** Journal and proceedings; 1900 (v. 34). Sydney, 1901. 1 v., pl., map, 9 x 6, ½ ro.
- 4.1 **VICTORIAN INSTITUTE OF SURVEYORS.** Transactions and proceedings; 1874-84, '91-99 (v. 1-2, 4). Melbourne, 1881-1900. 3 v., il., pl., 9 x 6, cl.

PERIODICALS.

PERIODICALS—NORTH AMERICA.

Ta3 UNITED STATES.

- 6 AMERICAN ARCHITECT AND BUILDING NEWS (weekly); July, 1899-June, 1902 (v. 65-76). Bost., 1899-1902. 12 v. in 11, il., pl., 18 x 9, $\frac{1}{4}$ mor.
- 58 AMERICAN ENGINEER AND RAILROAD JOURNAL (monthly); 1900-01 (v. 74-75). N. Y., 1900-01. 2 v., 12 x 8, dk.
- 68 AMERICAN GAS LIGHT JOURNAL (weekly); July, 1900-June, '02 (v. 73-76). N. Y., 1900-02. 4 v., 13 x 10, unbound.
- 123 AMERICAN INVENTOR (semi-monthly); May, 1900-Mar., '02 (v. 6-8). Wash., 1900-02. 3 v., il., 14 x 11, unbound.
- 60 AMERICAN MANUFACTURER AND IRON WORLD (weekly); July, 1900-June, '02 (v. 67-70). Pittsburgh. 1900-02. 4 v., 13 x 9, unbound.
- 71a ARCHITECTS' AND BUILDERS' MAGAZINE (monthly); Oct., 1899-Sept., 1901 (v. 1-2). Note: Continuation of *Architecture and Building*. N. Y., 1899-1901. 2 v., 10 x 7, $\frac{1}{4}$ ro.
- 64 ARMY AND NAVY JOURNAL (weekly); Sept., 1900-Aug., '02 (v. 38-39). N. Y., 1900-02. 2 v., 16 x 11, unbound.
- 123 AUTOMOBILE TOPICS (weekly); Oct., 1900-Oct., '02 (v. 1-4). N. Y., 1900-02. 4 v., il., 10 x 7, unbound.
- 96 BOOK REVIEWS (monthly); 1900-June, '01 (v. 8-9, Nos. 1-6). N. Y., 1900-01. 2 v., 9 x 6, unbound.
- 71 BUILDING (weekly); Oct., 1899-Dec., '85 (v. 1-3). N. Y., 1899-85. 3 v., 14 x 11, cl.
- 113 BULLETIN OF THE UNIVERSITY OF WISCONSIN, SCIENCE SERIES; 1894-1901 (v. 1-2). Madison, 1894-1901. 2 v., il., 10 x 6, unbound.
- 8 CASSIER'S MAGAZINE (monthly); Nov., 1900-Oct., '02 (v. 19-22). N. Y., 1900-02. 4 v., il., por., 10 x 7, $\frac{1}{4}$ ro.
- 128 CEMENT AND ENGINEERING NEWS (monthly); Aug., 1896-June, 1902 (v. 1-12). Note: v. 1, Nos. 1, 5, 6; v. 2, No. 1; v. 6, Nos. 1-3; v. 7, No. 1 (July, Nov., Dec., 1896; July, '97; Jan., Mar., July, '99) wanting. Chic., 1896-1902. 12 v., il., 12 x 9, unbound, dk.
- 99 CITY GOVERNMENT (monthly); Jan.-June, 1900; Jan., '01-June, '02 (v. 8, 10-12). Note: Subsequent to 1900 published under title *Municipal Journal and Engineer*; v. 8, Nos. 2, 4, 6; v. 10, Nos. 1, 3-6 (Feb., Apr., June, 1900; Jan., Mar.-June, '01) wanting. N. Y., 1900-02. 4 v., 12 x 9, unbound.
- 17 CITY RECORD (daily); Apr.-Sept., 1874; '75-77; July-Dec., '78; '79-86; Apr.-Dec., '87; '89-92; Jan.-Sept., '93; Jan.-Mar., July-Sept., '94; Jan.-Mar., '95; Oct.-Dec., '96; '97; Jan.-Feb., May-Dec., '99; 1900; Jan.-June, Aug.-Dec., '01 (v. 2, Pts. 2-3; v. 3-5; v. 6, Pts. 3-4; v. 7-14; v. 15, Pts. 2-4; v. 17-20; v. 21, Pts. 1-3; v. 22, Pts. 1, 3; v. 23, Pt. 1; v. 24, Pt. 4; v. 25; v. 27, Pts. 1, 3-6; v. 28; v. 29, Pts. 1-6, 9-12). Note: v. 8 (1880), Pts. 2-3; v. 10 (1882), Pt. 1; v. 11 (1883), Pt. 1, incomplete. N. Y., 1874-1901. 106 v., 16 x 11, $\frac{1}{4}$ ro.
- 125 COLUMBIA UNIVERSITY QUARTERLY; Dec., 1900-Sept., '01 (v. 3). N. Y., 1900-01. 1 v., 10 x 6, $\frac{1}{4}$ ro.
- 97 COMPRESSED AIR (monthly); 1900-01 (v. 5-6). N. Y., 1900-01. 2 v., il., 9 x 6, unbound.
- 66 ELECTRICAL ENGINEER (weekly); 1883-86, '89 (v. 2-5, 8). Note: Title of v. 2 (1883) reads *Electrician*; v. 3-5 (1884-86) *Electrician and Electrical Engineer*. N. Y., 1883-89. 5 v., 12 x 9, dk.
- 73 ELECTRICAL WORLD AND ENGINEER (weekly); 1884-1902 (v. 3-39). N. Y., 1884-1902. 36 v. in 32, 13 x 10, unbound, dk.
ELECTRICIAN. See *Electrical Engineer*.
- 76 ELECTRICITY (weekly); July, 1891-July, '94; July, 1900-June, '02 (v. 1-6, 19-22). N. Y., 1891-1902. 10 v., 14 x 11, dk.
- 4 ENGINEERING AND MINING JOURNAL (weekly); July, 1899-June, 1902 (v. 68-73). N. Y., 1899-1902. 6 v., il., 13 x 10, $\frac{3}{4}$ mor.
- 22 ENGINEERING MAGAZINE (monthly); Oct., 1900-Sept., '02 (v. 20-23). N. Y., 1901-02. 4 v., il., 10 x 7, $\frac{1}{4}$ ro.

Ta3 UNITED STATES—(Continued).

- 56 **ENGINEERING MECHANICS** (monthly); 1899. Note: No. 12 (Dec.) wanting. Phil., 1899. 1 v., 12 x 9, unbound.
- 2 **ENGINEERING NEWS AND AMERICAN RAILWAY JOURNAL** (weekly); 1876-78, July, '99-June, 1902 (v. 3-5, 42-47). N. Y., 1876-1902. 9 v., il., 18 x 10, ¼ ro., ¼ mor.
- 2b — Index for the years 1890 to 1899 inclusive; comp. by Mary E. Miller. N. Y., 1900. 324 pp., 9 x 6, cl.
- 1 **ENGINEERING RECORD** (weekly); June, 1899-June, 1902 (v. 40-45). N. Y., 1899-1902. 6 v., il., 18 x 10, ¼ mor.
- 65 **IRON AGE** (weekly); July, 1900-June, 1902 (v. 66-69). N. Y., 1900-02. 4 v., 18 x 9, dk.
- 28 **JOURNAL OF THE UNITED STATES ARTILLERY** (bi-monthly); July 1900-June, '02 (v. 14-17). Fort Monroe, 1900-02. 4 v., il., 10 x 7, unbound.
- 12 **JOURNAL OF THE WORCESTER POLYTECHNIC INSTITUTE** (bi-monthly); Nov., 1899-July, 1901 (v. 3-4). Worcester, 1900-01. 2 v., pl., 9 x 6, unbound.
- 11 **KANSAS UNIVERSITY QUARTERLY**; 1900-01 (v. 9-10). Lawrence, 1900-01. 2 v., il., pl., 10 x 6, ¼ ro.
- 38 **LIBRARY JOURNAL** (monthly): Official organ of the Library Associations of America and of the United Kingdom; 1896-1901 (v. 20-26). Note: v. 20-23, 26 (1895-98, 1901) incomplete. N. Y., 1895-1901. 6 v., 10 x 8, unbound.
- 45 **LITERARY NEWS: A monthly journal of current literature**; 1884-89 (new ser., v. 5-10). Note: v. 5, No. 12 (Dec., 1884) wanting. N. Y., 1884-89. 6 v., 10 x 7, unbound.
- 33 **LOCOMOTIVE, THE** (monthly); 1900-01 (new ser., v. 21-22). Hartford, 1900-01. 2 v., il., 9 x 6, unbound.
- 78 **LOUISIANA PLANTER** (weekly); July, 1900-June, '02 (v. 25-28). New Orleans, 1900-02. 4 v., 12 x 9, unbound.
- 120 **MACHINERY** (monthly); Sept., 1898-Aug., '99; Sept., 1900-Aug., '01 (v. 5, 7). N. Y., 1898-1901. 2 v., 13 x 9, dk., cl.
- 16 **MANUFACTURER AND BUILDER** (monthly); 1876 (v. 8). N. Y., 1876. 1 v., 18 x 10, cl.
- 57 **MANUFACTURERS' RECORD** (weekly); July, 1900-June, '02 (v. 38-41). Balt., 1900-02. 4 v., 15 x 9, unbound.
- 127 **METALLOGRAPHIST: A quarterly publication devoted to the study of metals, with special reference to their physics and microstructure, their industrial treatment and applications**; 1898-1901 (v. 1-4). Bost., 1898-1901. 4 v., il., 9 x 6, ¼ ro.
- 70 **MINES AND MINERALS** (monthly); Aug., 1890-July, '91; Aug., 1900-July, '02 (v. 11, 21-22). Note: Title of v. 11 reads *Colliery Engineer*. Scranton, 1891-1902. 3 v., 12 x 9, dk.
- 89 **MINING AND METALLURGY** (monthly); 1901 (v. 24). Los Angeles, 1901. 1 v., il., 12 x 9, unbound.
- 95 **MODERN MACHINERY** (monthly); July, 1900-June, '02 (v. 8-11). Chic., 1900-02. 4 v., 11 x 8, unbound.
- 107 **MONTHLY BULLETIN OF THE FIDELITY AND CASUALTY COMPANY OF New York**; 1900-01 (v. 5-6). Note: Incomplete. N. Y., 1900-01. 2 v., 10 x 7, unbound.
- 115 **MONTHLY SUMMARY OF COMMERCE AND FINANCE OF THE UNITED States**; July, 1899-June, 1902. Wash., 1899-1902. 4 v., 11 x 9, unbound.
- 91 **MONTHLY WEATHER REVIEW**; 1874-75, 1900-02 (v. 2-3, 28-29). Wash., 1874-1900. 4 v., 12 x 10, dk.
- 41 **MUNICIPAL AFFAIRS** (quarterly); 1900 (v. 4). N. Y., 1900. 1 v., 9 x 6, pap.
- 55 **MUNICIPAL AND RAILWAY RECORD** (monthly); July-Dec., 1900 (v. 7). Note: Incomplete. Incorporated 1901 with the *Municipal Journal and Engineer*. N. Y., 1900. 1 v., il., 13 x 10, unbound.
- MUNICIPAL JOURNAL AND ENGINEER**. See *City Government*.
- 104 **OFFICIAL GAZETTE OF THE UNITED STATES PATENT OFFICE** (weekly); July, 1900-June, '02 (v. 92-99). Wash., 1900-02. 8 v., il., 11 x 7, unbound.
- 98 **OUR ANIMAL FRIENDS** (monthly); Sept., 1900-Aug., '02 (v., 28-29). N. Y., 1900-02. 2 v., 11 x 9, unbound.
- 100 **OUR DUMB ANIMALS** (monthly); June, 1900-May, '02 (v. 33-34). Bost., 1900-02. 2 v., il., 12 x 10, unbound.
- 39 **PAVING AND MUNICIPAL ENGINEERING** (monthly); Sept., Dec., 1890; Jan., '91; '97-June, 1902 (v. 1, No. 4, 7-8; v. 12-22). Indianapolis, 1897-1902. 12 v., il., 10 x 7, unbound.
- 46 **POLYTECHNIC, THE** (monthly); Oct., 1899-June, 1902 (v. 16-18). Troy, 1900-02. 3 v., 11 x 8, unbound.
- 126 **POWER** (monthly); 1901 (v. 21). N. Y., 1901. 1 v., il., 15 x 11, dk.

Ta3 UNITED STATES—(Continued).

- QUARTERLY JOURNAL OF ECONOMICS**; Apr., 1887; Jan., '89. no place, 1887-89. 2 v., 9 x 6, b. p. ZJ-192, p. 1.
- 79 **RAILROAD CAR JOURNAL** (monthly); 1900-Jan., '02. (v. 10-12, No. 1.) Note: From Jan., 1901 to Jan., 1902 published as the *Railroad Digest* and in Feb., 1902 consolidated with *Railway Machinery* as *Railway Machinery and the Railroad Digest*. N. Y., 1900-02. 2 v., 12 x 9, unbound.
- RAILROAD DIGEST**. See *Railroad Car Journal*.
- 8 **RAILROAD GAZETTE** (weekly); 1899-1901 (v. 81-83). N. Y., 1899-1901. 3 v., il., 15 x 11, $\frac{3}{4}$ mor.
- 62 **RAILWAY AGE** (weekly); July, 1900-June, '02 (v. 30-33). Chic., 1900-02. 4 v., 15 x 11, unbound.
- 74 **RAILWAY MASTER MECHANIC** (monthly); 1900-01 (v. 24-25). Chic., 1900-01. 2 v., 10 x 7, unbound.
- 61 **RAILWAY REVIEW** (weekly); 1900-01 (v. 40-41). Note: In Apr., 1897, title changed to *Railway and Engineering Review*. Chic., 1900-01. 2 v., 16 x 11, dk.
- 59 **RAILWAY WORLD** (weekly); 1900-01 (v. 26-27). Phil., 1900-01. 2 v., 13 x 9, unbound.
- RAND'S REPERTORY OF OFFICIAL REPORTS** concerning railway securities (bi-monthly); Apr., 1885; May, '86 (v. 1, No. 1; v. 2, No. 4). N. Y., 1885-86. 2 v., il., 9 x 6, b. p. Aa-81, p. 1.
- 124 **REVIEW OF AMERICAN CHEMICAL RESEARCH**; 1897-1901 (v. 3-7). Easton, Pa., 1898-1901. 5 v. in 3, 9 x 6, $\frac{1}{2}$ ro., pap.
- 9 **SCHOOL OF MINES QUARTERLY**: A journal of applied science; Nov., 1899-July, 1901 (v. 21-22). N. Y., 1900-01. 2 v., il., 9 x 6, $\frac{1}{2}$ ro.
- 9a — Contents and index; 1888-July, 1899 (v. 1-20). N. Y., 1890-1900. 2 v., 9 x 6, pap.
- 116 **SCIENTIFIC AMERICAN** (weekly): An illustrated journal of art, science, and mechanics; July-Dec., 1865; July, 1900-June, '02 (new ser., v. 14, 88-86). N. Y., 1865-1902. 5 v., il., 16 x 11, unbound.
- 117 **SCIENTIFIC AMERICAN SUPPLEMENT** (weekly); July, 1900-June, '02 (v. 50-53), N. Y., 1900-02. 4 v., il., 16 x 10, unbound.
- 117a — Catalogue of valuable papers; 1876-1902. N. Y., 1902. 1 v., 11 x 8, pap.
- 36 **STEVENS INDICATOR** (quarterly); 1900-01 (v. 17-18). Hoboken, 1900-01. 2 v., il., 10 x 7, $\frac{1}{2}$ ro.
- 40 **STONE**: An illustrated magazine issued monthly; July, 1900-June, '02 (v. 21-24). N. Y., 1900-02. 4 v., il., 10 x 7, pap.
- 47 **STREET RAILWAY JOURNAL** (weekly); 1900-June, '02 (v. 16-19). N. Y., 1900-02. 4 v., il., 12 x 9, dk.
- 25 **TECHNIC, THE**: The annual of the Engineering Society of the University of Michigan; 1892-93, '95-1900 (old ser., Nos. 8-9, 11-13; new ser., Nos. 5-6, 8-13). Ann Arbor, 1892-1900. 8 v., il., 9 x 6, pap.
- 26 **TECHNOGRAPH, THE**: published annually by the Association of Engineering Societies of the University of Illinois; 1886-87, '92-93, '95-97, '98-99, 1900-02 (Nos. 1, 7, 10-11, 13, 15-16). Note: Prior to 1890, title reads *Selected Papers of the Civil Engineers' Club of the University of Illinois*. Champaign, 1886-1902. 7 v., il., 9 x 6, pap.
- 35 **TECHNOLOGY QUARTERLY**; 1900-01 (v. 13-14). Bost., 1900-01. 2 v., il., 10 x 7, $\frac{1}{2}$ ro.
- 48 **TECHNOLOGY REVIEW** (quarterly); 1900-01 (v. 2-3). Bost., 1900-01. 2 v., il., 10 x 7, $\frac{1}{2}$ ro.
- 27 **TRANSIT, THE**: published annually by the State University of Iowa; ed. by the Engineering Society; Jan., '93; '99 (v. 2, No. 2; v. 7). Iowa City, 1893-99. 2 v., il., 9 x 6, unbound.
- 85 **TRAVELLERS' RECORD** (monthly); Apr., 1900-Mar., '02 (v. 36-37). Hartford, 1900-02. 2 v., 12 x 10, unbound.
- 19 **UNIVERSITY OF TENNESSEE RECORD** (bi-monthly); 1900-01 (v. 3-4). Knoxville, 1900-01. 2 v., il., 9 x 6, unbound.

Ta4 WEST INDIES.

- 2 **REVISTA DE CONSTRUCCIONES Y AGRIMENSURA** (monthly); 1900-01 (v. 2-3). Habana, 1900-01. 2 v., il., 13 x 9, unbound.

PERIODICALS—SOUTH AMERICA.

Tb1 ARGENTINE REPUBLIC.

- 3 **BOLETIN DE OBRAS PUBLICAS DE LA REPUBLICA ARGENTINA** (monthly); July-Dec., 1900 (v. 1). Buenos Aires, 1900. 1 v., il., 10 x 7, unbound.
- 2 **INGENIERIA, LA** (semi-monthly): Órgano oficial del Centro Nacional de Ingenieros; Jan.-May, 1898; 1900 (v. 2, Nos. 6-10; v. 4). Note: Volume for 1898 published monthly. Buenos Aires, 1898-1900. 2 v., il., 14 x 10, unbound.

Tb5 COLOMBIA.

- 1 **ANALES DE INGENIERIA** (monthly); *Organo de la Sociedad Colombiana de Ingenieros*; 1899 (v. 11). Bogota, 1899. 1 v., 10 x 6, unbound.
- 1a —Indices; v. 1-10; 1887-97. Bogota, 1899. 82 pp., 10 x 6, pap.

Tb9 PERU.

- 1 **ANALES DE CONSTRUCCIONES CIVILES Y DE MINAS DEL PERU**; publicados por la Escuela de Ingenieros de Lima; 1901 (ser. 2, vol. 1). Lima, 1901. 1 v., 9 x 6, unbound.
- 3 **BOLETIN DE MINAS, INDUSTRIA Y CONSTRUCCIONES** (monthly); publicado por la Escuela Especial de Ingenieros; Feb., 1900-Jan., '02 (v. 16-17). Lima, 1900-02. 2 v., 14 x 9, unbound.

PERIODICALS—EUROPE.

Td1 AUSTRIA.

- 1 **MITTHEILUNGEN ÜBER GEGENSTÄNDE DES ARTILLERIE- UND GENIE-WESENS** (monthly); 1881, 1900-01. Wien, 1881-1901. 3 v., 11, 10 x 6, unbound.
- 1a —Alphabetisch und jahrgangsweise geordnetes Sachregister; 1884-99. Wien, 1891-1900. 2 v., 9 x 6, pap.

Td2 BELGIUM.

- 1 **ANNALES DES TRAVAUX PUBLICS DE BELGIQUE** (bi-monthly); 1900-01 (v. 5-6). Bruxelles, 1900-01. 2 v., 11, 10 x 6, ½ ro.

Td3 DENMARK.

- 1 **INGENIÖREN** (semi-weekly); udgivet af Dansk Ingeniørforening; 1900-01 (v. 9-10). Note: v. 9 incomplete. Kobenhavn, 1900-01. 2 v., 18 x 9, unbound.

Td4 FRANCE.

- 7.3 **ANNALES DES PONTS ET CHAUSSEES**: Lois, décrets, arrêtés et autres actes concernant l'administration et le personnel des Ponts et Chaussées et documents administratifs concernant les pays étrangers (monthly); 1900-01 (ser. 7, v. 10; ser. 8, v. 1). Paris, 1900-01. 2 v., 9 x 6, ½ ro.
- 7.1 —Mémoires et documents relatifs à l'art des constructions et au service de l'ingénieur (quarterly); 1900-01 (ser. 7). Paris, 1900-01. 2 v., 9 x 6, ½ ro., unbound.
- 7.2 —Personnel (yearly); 1868. Paris, 1868. 1 v., 9 x 6, pap.
- 19 **BIBLIOGRAPHIE DES SCIENCES ET DE L'INDUSTRIE**: Revue mensuelle complète des nouveaux livres et sommaires des journaux relatifs aux sciences, à l'art de l'ingénieur et à l'industrie; Nov., 1898-Nov., 1901 (Nos. 1-37). Paris, 1898-1901. 3 v., 13 x 9, unbound.
- 20 **CIMENT, LE**; son emploi et ses applications nouvelles en France et à l'Etranger (monthly); June, 1896-Dec., 1901 (v. 1-6). Paris, 1896-1901. 6 v., 11, 10 x 8, dk.
- 5 **GENIE CIVIL, LE**: Revue générale hebdomadaire des industries françaises et étrangères; May, 1900-Apr., '02 (v. 37-40). Paris, 1900-02. 4 v., 11, 14 x 11, dk.
- 6 **NOUVELLES ANNALES DE LA CONSTRUCTION** (monthly); 1877-80, 1900-01 (ser. 3, v. 2-5; ser. 5, v. 7-8). Paris, 1877-1901. 6 v., 15 x 11, dk., cl.
- 4 **PORTEFEUILLE ECONOMIQUE DES MACHINES DE L'OUTILLAGE ET DU matériel relatifs à la construction, aux chemins de fer, aux routes, aux mines, à la navigation, à la télégraphie, etc.** (monthly); 1862-80, 1900-01 (v. 7-20; ser. 3, v. 1-5; ser. 4, v. 9-10). Paris, 1862-1901. 21 v., 11, 15 x 11, dk.
- 16 **REVUE DE MECANIQUE** (monthly); July, 1900-June, '02 (v. 7-10). Paris, 1900-02. 4 v., 13 x 9, dk.
- 15 **REVUE GENERALE DES CHEMINS DE FER ET DES TRAMWAYS** (monthly); Jan., 1900-June, '02 (v. 23-25, Pt. 1). Paris, 1900-02. 3 v. in 5, 13 x 9, dk.
- 8 **REVUE TECHNIQUE** (semi-monthly); *Annales des travaux publics et des chemins de fer*; 1900-01 (v. 21-22). Paris, 1900-01. 2 v., 14 x 11, dk.

Td5 GERMANY.

- 18 **ANZEIGEN ZUR THONINDUSTRIE-ZEITUNG** (tri-weekly); 1892, '94-1901 (v. 16, 18-25). Berlin, 1892-1901. 12 v., 13 x 10, dk., unbound.
- 10 **DEUTSCHE BAUZEITUNG** (semi-monthly); Verkündigungsblatt des Verbandes deutscher Architekten- und Ingenieur-Vereine; 1867-77, 1900-01 (v. 1-11, 34-35). Berlin, 1867-1901. 13 v., 13 x 9, dk., unbound.
- DINGLER'S POLYTECHNISCHES JOURNAL**. See *Polytechnisches Journal*.
- 1 **POLYTECHNISCHES JOURNAL** (semi-monthly); 1865-80 (v. 175-238). Note: v. 227, 231-238 (Jan.-Mar., 1878, '79, '80) incomplete; v. 228-230 (Apr.-Dec., 1878) wanting. Augsburg, 1865-80. 61 v., 11, 9 x 6, ¾ ro., unbound.

Td5 GERMANY—(Continued).

- 1a —Real-index zu Dr. Dingler's Polytechnischen Journal, von Band 159-198; von D. Philipp. Stuttgart, 1871. 261 pp., 9 x 6, ¾ ro.
- 4 STAHL UND EISEN (semi-monthly): Zeitschrift für das deutsche Eisenhüttenwesen; 1900-01 (v. 20-21). Düsseldorf, 1900-01. 2 v., il., 11 x 7, unbound.
- 8 ZEITSCHRIFT FÜR BAUWESEN (quarterly): 1851-75, '77-80, 97-98, 1900-01 (v. 1-25, 27-30, 47-48, 50-51). Berlin, 1851-1901. 38 v. in 24, il., 14 x 10 (atlas 18 x 12), dk.

Td6 GREAT BRITAIN.

- 7 BUILDER: An illustrated weekly magazine; July, 1899-June, 1902 (v. 77-82). Lond., 1899-1902. 6 v., il., 13 x 9, ¾ mor.
- 6 BUILDING NEWS AND ENGINEERING JOURNAL (weekly); July, 1899-June, 1902 (v. 77-82). Lond., 1899-1902. 6 v., il., 13 x 9, ¾ mor.
- 36 COLLIERY GUARDIAN AND JOURNAL OF THE COAL AND IRON TRADES (weekly); Jan.-June, 1899; July, 1900-June, '02 (v. 77, 80-88). Note: v. 77 (Jan.-June, 1899) incomplete. Lond., 1899-1902. 5 v., il., 17 x 11, dk., unbound.
- 19 ELECTRICAL REVIEW (weekly); 1874; July, 1900-June, '02 (v. 2, 47-50). Lond., 1874-1902. 5 v., 18 x 9, unbound, dk.
- 35 ELECTRICIAN (weekly): Nov., 1888-Oct., 1901 (v. 12-47). Lond., 1888-1901. 36 v., 12 x 9, unbound, cl., dk.
- 5 ENGINEER, THE (weekly); July, 1899-June, 1902 (v. 88-98). Lond., 1899-1902. 6 v., il., 16 x 11, ¾ mor.
- 1 ENGINEERING: An illustrated weekly journal; July, 1899-June, 1902 (v. 68-73). Lond., 1899-1902. 6 v., il., 14 x 10, ¾ mor.
- 49 FEILDEN'S MAGAZINE (monthly); Aug., 1899-June, 1902 (v. 1-6). Lond., 1899-1902. 6 v., il., 10 x 7, ¾ ro.
- 45 ILLUSTRATED OFFICIAL JOURNAL (PATENTS) (weekly); 1900-01. Lond., 1900-01. 2 v., il., 11 x 7, unbound.
- 50 INGENIEUR UNIVERSEL, L' (weekly): 1878-81 (v. 1-6). Note: Text printed in French and English. v. 1-4, 6, incomplete. Manchester, England, 1878-81. 6 v., 16 x 12, unbound.
- 27 IRON AND COAL TRADES REVIEW (weekly); July, 1900-June, '02 (v. 61-64). Lond., 1900-02. 4 v., 16 x 11, dk.
- 18 JOURNAL OF GAS LIGHTING (weekly); July, 1900-Dec., '01 (v. 76-78). Lond., 1900-01. 3 v., 13 x 9, unbound.
- 38 MECHANICAL ENGINEER (weekly); July, 1900-June, '02 (v. 6-9). Manchester, 1900-02. 4 v., 14 x 10, dk.
- 48 MINING JOURNAL, RAILWAY AND COMMERCIAL GAZETTE (weekly); 1900-01 (v. 70-71). Lond., 1900-01. 2 v., 18 x 12, dk.
- 23 RAILWAY ENGINEER (monthly); 1900-01 (v. 21-22). Lond., 1900-01. 2 v., 12 x 10, unbound.
- 46 REPORTS OF PATENT, DESIGN AND TRADE MARK CASES (bi-monthly); 1898, 1900-01 (v. 15, 17-18). Note: Issued as a part of the *Illustrated Official Journal (Patents)*. Lond., 1898-1901. 3 v., 11 x 7, unbound.
- 40 SYMONS'S MONTHLY METEOROLOGICAL MAGAZINE; 1870-73, '75-76 (v. 5-8, 10-11). Note: v. 7, 10-11 (1872, '75-76) incomplete. Lond., 1870-76. 6 v., 8 x 5, pap.

Td7 HUNGARY.

- 2 A MAGYAR MERNÖK-ES ÉPÍTÉS-EGYLET HETI ÉRTESÍTŐJE (weekly); 1900-01 (v. 19-20). Budapest, 1900-01. 2 v., 11 x 8, unbound.
- 1 A MAGYAR MERNÖK-ES ÉPÍTÉS-EGYLET KÖZLÖNYE (monthly); 1877, '78-86, 1900-01 (v. 11, 13-20, 34-35). Note: v. 11, no. 6; v. 14, no. 6; v. 17, no. 6; v. 18, no. 4; v. 20, no. 12; (Nov., Dec., 1877; Nov., Dec., 1880; Nov., Dec., 1883; July, Aug., 1884; Dec., 1886), wanting. Budapest, 1900-01. 11 v., 13 x 10, unbound.

Td8 ITALY.

- 1 GIORNALE DEL GENIO CIVILE (monthly); 1900-01 (v. 38-39). Roma, 1900-01. 2 v., il., 9 x 6, unbound.

Td10 NORWAY.

- 2 TEKNISK UGEBLAD (weekly); 1900-01 (v. 18-19). Note: Continuation of *Norsk Teknisk Tidsskrift*. Kristiania, 1900-01. 2 v., 13 x 10, unbound.

Td13 RUSSIA.

- 1 RIGASCHE INDUSTRIE-ZEITUNG (semi-monthly): Organ des Technischen Vereins zu Riga; 1900-01 (v. 26-27). Riga, 1900-01. 2 v., 12 x 9, unbound.

Td14 SPAIN.

- 1 **REVISTA DE OBRAS PUBLICAS** (weekly); fundada y sostenida por el Cuerpo Nacional de Ingenieros de Caminos, Canales y Puertos; 1900-01 (v. 47-48). Madrid, 1900-01. 2 v., 14 x 10, unbound.

Td15 SWEDEN.

- 1 **TEKNISK TIDSKRIFT** (weekly); utgifven af Svenska Teknologföreningen; 1900-01 (v. 80-81). Stockholm, 1900-01. 2 v., 18 x 10, unbound.

PERIODICALS—ASIA.

Te

- 4 **INDIAN ENGINEER** (weekly); Apr., 1886-Apr., 1889 (v. 1-7). Note: v. 7 (1889) incomplete. Calcutta, 1886-89. 7 v., 14 x 10, unbound.
- 2 **INDIAN ENGINEERING** (weekly); July-Dec., 1889; July, 1900-Dec., '01 (v. 6, 28-30). Calcutta, 1889-1901. 4 v., 13 x 9, dk.

DICTIONARIES AND ENCYCLOPEDIAS.

U

- 99 **AMERICAN ALMANAC AND REPOSITORY OF USEFUL KNOWLEDGE;** 1880-84, '87-40, '50 (v. 1-5, 8-11, 21). Bost., 1880-50. 10 v., maps, tab., 8 x 5, pap.
- 90 **BROOKLYN DAILY EAGLE ALMANAC;** 1896-98. N. Y., 1896-98. 3 v., maps, 9 x 6, pap.
- 98 **CASPAR, C. N.** Caspar's directory of the American book, news and stationery trade, wholesale and retail, comprising the publishing, subscription, retail book, antiquarian, news, map, art, music, manufacturing, jobbing and retail stationery, blank book, and paper manufacturing business, and general jobbers in above lines, in the United States and Canada. Milwaukee, 1889. 1892 pp., por., 10 x 7, 1/4 mor.
- 98 **CULLUM, G. W.** Biographical register of the Officers and Graduates of the U. S. Military Academy at West Point, N. Y., from its establishment, in 1802, to 1890, with the early history of the United States Military Academy. ed. 3, rev. and enl. Bost., 1891. 8 v., 10 x 7, cl.
- 98 — Same; Supplement, v. 4, 1890-1900; ed. by Edward S. Holden. Cambridge, 1901. 12 + 707 pp., por., 10 x 7, cl.
- 88 **DODD, GEORGE.** Dictionary of manufactures, mining, machinery and the industrial arts. N. Y., 1869. 4 + 446 pp., 7 x 5, cl.
- 84 **ENGINEERING INDEX;** ed. by the Association of Engineering Societies; 1896-1900 (v. 3). N. Y., 1901. 1 v., 10 x 7, cl.
- 92 **KNIGHT'S AMERICAN MECHANICAL DICTIONARY:** A description of tools, instruments, machines, processes and engineering; history of inventions; general technological vocabulary; and digest of mechanical appliances in science and the arts; by Edward H. Knight. Bost., 1878. 3 v., il., pl., 10 x 7, cl.
- 92a **KNIGHT'S NEW MECHANICAL DICTIONARY:** A description of tools, instruments, machines, processes and engineering, with indexical references to technical journals, 1876-80; by Edward H. Knight. Bost., 1888. 8 + 960 pp., il., pl., 10 x 7, cl.
- 97 **NATIONAL CYCLOPEDIA OF AMERICAN BIOGRAPHY,** being the history of the United States as illustrated in the lives of the founders, builders, and defenders of the Republic, and of the men and women who are doing the work and moulding the thought of the present time, edited by distinguished biographers, selected from each state, revised and approved by the most eminent historians, scholars, and statesmen of the day. N. Y., 1898-1901. 11 v., il., por., 11 x 8, 1/4 rus.
- NORTH OF ENGLAND INSTITUTE OF MINING AND MECHANICAL ENGINEERS.** Subject-matter index of mining, mechanical and metallurgical literature; 1900. (See Sd6-8.7.)
- 91 **POOLE'S INDEX TO PERIODICAL LITERATURE;** abridged edition covering the contents of thirty-seven important periodicals, 1815-99; by William I. Fletcher and Mary Poole. Bost., 1901. 7 + 843 pp., 11 x 8, cl.
- 89 **SPON, E., and F. N.,** pub. Workshop receipts for the use of manufacturers, mechanics, and scientific amateurs: Ser. 1, by Ernest Spon; Ser. 2, by Robert Haldane; Ser. 3-4, by C. G. W. Lock. Lond., 1873-89. 4 v., il., 8 x 5, cl.
- 22a **SPON'S DICTIONARY OF ENGINEERING, CIVIL, MECHANICAL, MILITARY,** and naval; with technical terms in French, German, Italian, and Spanish; ed. by Oliver Byrne. Lond., 1871-74. 8 v., il., tab., 10 x 7, cl.
- 22b — Same. Supplement; ed. by Ernest Spon. Lond., 1879-81. 8 v., il., tab., 10 x 7, cl.
- 96 **STURGIS, RUSSELL, and others.** Dictionary of architecture and building, biographical, historical and descriptive. N. Y., 1901-02. 8 v., il., pl., 11 x 8, cl.
- 94 **VELAZQUEZ DE LA CADENA, MARIANO,** comp. New pronouncing dictionary of the Spanish and English languages, rev. and enl. by Edward Gray and Juan L. Iribas. N. Y., 1901. 2 v., 10 x 7, 1/4 mor.
- 72 **WHITAKER, JOSEPH.** Almanack; 1887-92. Lond., 1887-92. 6 v., 7 x 5, cl., 1/4 ro.
- 95 **WHO'S WHO IN AMERICA:** A biographical dictionary of notable living men and women of the United States; 1901-02. Chic., copyright 1901. 1 v., 9 x 6, cl.
- 73 **WORLD ALMANAC AND ENCYCLOPEDIA;** 1902. N. Y., 1902. 1 v., 8 x 5, pap.

ENGINEERING HANDBOOKS.*

V

- 133 **AUTENRIETH, ED.** Technische Mechanik: Ein Lehrbuch der Statik und Dynamik für Maschinen- und Bauingenieure. Berlin, 1900. 22 + 558 pp., il., 10 x 6, pap.
- 116 **BACH, C.** Elasticität und Festigkeit; die für die Technik wichtigsten Sätze und deren erfahrungsmässige Grundlage. ed. 2, enl. Berlin, 1894. 14 + 432 pp., il., 15 pl., 9 x 6, cl.
- 99b **BAKER, I. O.** Treatise on masonry construction. ed. 2. Contents: Pt. 1, Description and characteristics of the materials. Pt. 2, Methods of preparing and using the materials. Pt. 3, Foundations. Pt. 4, Masonry structures. N. Y., 1890. 15 + 522 pp., il., 6 pl., 9 x 6, cl.
- 115 **BARTLETT, W. H. C.** Elements of analytical mechanics. ed. 7, rev. and enl. N. Y., 1860. 8 + 506 pp., il., 9 x 6, cl.
- 128 **BLACK, W. M.** United States public works, containing a summary of the methods of construction and character of materials and plant used in the public works under the charge of the War and Treasury Departments, and of the Commissioners of the District of Columbia, including works of river and harbor improvement, buildings at posts of the United States Army, lighthouses, public buildings, life-saving stations, and works of municipal engineering of Washington, D. C., also of the laws, regulations and forms prescribed for the conduct of such works; and a directory of the United States agents in charge of these works, and of contractors for them. N. Y., 1896. 6 + 276 pp., il., 36 pl., 9 x 12, cl.
- 119 **CAMBRIA IRON CO.** Cambria steel: A handbook of information relating to structural steel, containing useful tables, rules, data and formula for the use of engineers, architects, builders and mechanics. no place, 1898. 11 + 350 pp., il., tab., 7 x 5, mor.
- 119a — Same; Phil., 1901. 10 + 428 pp., il., tab., 7 x 5, mor.
- 110 **CARNEGIE STEEL CO.** Pocket companion, containing useful information and tables, appertaining to the use of steel for engineers, architects and builders. Pittsburg, 1900. 335 pp., il., tab., 6 x 4, mor.
- 118 **CHURCH, I. P.** Mechanics of engineering; comprising statics and dynamics of solids; the mechanics of the materials of construction, or strength and elasticity of beams, columns, shafts, arches, etc.; and the principles of hydraulics and pneumatics, with applications. N. Y., 1900. 26 + 834 pp., il., 9 x 6, cl.
- 136 **COAL AND METAL MINERS' POCKETBOOK OF PRINCIPLES, RULES, formulas, and tables; specially comp. and prepared for the convenient use of mine officials, mining engineers, and students preparing themselves for certificates of competency as mine inspectors or mine foremen. ed. 7, rev. and enl. Scranton, 1902. 12 + 637 pp., il., 7 x 4, mor.**
- 60 **COOPER, THEODORE.** Specifications. no place, no date. pp. 559-573, 9 x 6, pap.
- 135 **COUSINERY, B.-E.** Recueil de tables à l'usage des ingénieurs, faisant suite à l'ouvrage sous le même titre de R. Génieys, et formant le deuxième volume. Paris, 1846. 8 + 312 pp., il., tab., 9 x 6, cl.
- 127 **DARDART, EMILE.** Exécution des travaux publics. (Bibliothèque du Conducteur de Travaux Publics.) Paris, 1901. 11 + 632 pp., 7 x 5, ro.
- 123 **DARIES, GEORGES.** Mécanique, hydraulique thermodynamique. (Bibliothèque du Conducteur de Travaux Publics.) Paris, 1896. 8 + 376 pp., il., pl., 8 x 5, ro.
- 18 **DEBAUVE, A.** Manuel de l'ingénieur des ponts et chaussées; v. 10. Contents: Ponts en maçonnerie. Paris, 1875. 2 v. in 1, pl., tab., 9 x 6 (atlas 12 x 10), pap.
- 129 — Procédés et matériaux de construction. Contents: v. 1, Sondages; terrassements; dragages. v. 2, Fondations. v. 3, Matériaux de construction. v. 4, Outillages et organisation des chantiers. v. 5, Atlas. Paris, 1894. 4 v., il., pl., 9 x 6 (atlas 12 x 10), ½ mor.
- 130 **DEBO, LUDWIG.** Lehrbuch der Mauerwerks-Konstruktionen. Hannover, 1901. 12 + 384 pp., il., 8 x 6, cl.

*NOTE.—Includes text books on mechanics, strength of materials and general engineering.

V—(Continued).

- 121 DU BOIS, A. J. Mechanics of engineering; v. 1. Contents: Kinematics, statics, kinetics, statics of rigid bodies and of elastic solids. N. Y., 1902. 1 v., 11 x 8, cl.
- 114 EXPERIMENTAL ENGINEERING. Contents: v. 1. Treatise on the methods and instruments used in testing and experimenting with engines, boilers and auxiliary machinery; by W. W. F. Pullen. v. 2. Treatise on the method and machines used in the mechanical testing of materials of construction; by W. C. Popplewell. Manchester, England, 1900-01. 2 v., il., tab., 9 x 6, cl.
- 181 FERRIS, C. E., comp. Tables and other data for engineers and business men. ed. 2. Knoxville, 1900. 216 pp., 6 x 8, ro.
- 125 FÖPPL, AUGUST. Vorlesungen ueber technische Mechanik. ed. 2. Contents: v. 1. Einführung in die Mechanik. v. 2. Graphische Statik. v. 3. Festigkeitslehre. v. 4. Dynamik. Leipzig, 1900. 4 v., il., 9 x 6, cl.
- 122 FOSTER, H. A. Electrical engineer's pocket book: A hand-book of useful data for electricians and electrical engineers. N. Y., 1901. 987 pp., il., 7 x 4, mor.
- 40 FOWLER, W. H., ed. Mechanical engineer's pocket book for 1902-03. Manchester, England, 1901-02. 2 v., il., 6 x 4, mor.
- 112 —Fowler's electrical engineer's year book; 1901-02. Manchester, England, 1901-02. 2 v., il., tab., 6 x 4, mor.
- 120 HANDBUCH DER INGENIEURWISSENSCHAFTEN. ed. 3, enl. Leipzig, 1897-1902. 5 v. in 14, il., pl., maps, tab., 10 x 7, ¼ mor.
- v. 1, Pt. 1, Vorarbeiten für Eisenbahnen; von L. Oberschulte. Bauleitung; von Gustav Meyer.
Pt. 2, Erd- und Felsarbeiten. Erdrutschungen; von Gustav Meyer. Stütz- und Futtermauern; von E. Häsel.
Pt. 3, Grundbau; von L. von Willmann und Conrad Zschokke.
Pt. 5, Der Tunnelbau; von E. Mackensen.
- v. 2, Pt. 1, Die Brücken im Allgemeinen; von Th. Landsberg. Steinernen Brücken; von G. Tolkmitt. Ausführung und Unterhaltung der steinernen Brücken; von G. Mehrrens. Hölzerne Brücken; von F. Heinzerling. Wasserleitungen und Kanalbrücken; von Fr. Lorey. Die Kunstformen des Brückenbaues; von R. Baumeister.
Pt. 2, Die eisernen Brücken im Allgemeinen; von J. E. Brik und Th. Landsberg. Theorie der eisernen Balkenbrücken; von Fr. Steiner.
- v. 3, Pt. 2, 1st half, Mellorationen; von A. Hess. Wasserstassen im Allgemeinen, etc.; von Ed. Sonne. Der Flussbau; von Franz Kreuter, H. Garbe, Ed. Sonne. Deiche; von H. Garbe.
Pt. 3, Das Meer und die Seeschifffahrt; von L. Franzius und C. Schilling. Einwirkung des Meeres auf die Küsten und Seeuferbau; von L. Franzius. Die Einwirkung des Meeres auf die Strommündungen und deren Korrektion; von L. Franzius und G. de Thierry. Seehäfen; von L. Franzius, G. Franzius und G. DeThierry. Hafendämme, Ufermauern und Schiffsbauanstalten; von G. Franzius und H. Mönch.
- v. 4, Pt. 1, Einleitung; von F. Lincke. Wasserhebemaschinen; von O. Berndt. Baggermaschinen; von H. Bücking. Rammen, etc.; von R. Graepel.
- v. 5, Pt. 1, Einleitung, etc.; von Alfred Birk. Bahn und Fahrzeug; von Franz Kreuter.
Pt. 2, Berechnung des Oberbaues; von Hermann Zimmermann. Konstruktion des Oberbaues; von Alfred Blum. Ausführung und Unterhaltung des Oberbaues; von Hermann Rosche.
Pt. 3, Weichen und Kreuzungen; von Ferdinand Loewe. Drehscheiben und Schiebebühnen; von Georg Meyer.
Pt. 7, Schmalspurbahnen; von Alfred Birk.
Pt. 8, Lokomotiv-Stellbahnen; von Roman Abt. Seilbahnen; von Siegfried Abt.
- 126 HERBERT, E. Comptabilité des travaux publics et tenue des bureaux des Services des Ponts et Chaussées. (Bibliothèque du Conducteur de Travaux Publics.) Paris, 1898. 16 + 520 pp., 7 x 5, ro.
- 39a HÜTTE VEREIN. Des Ingenieurs Taschenbuch. ed. 18, rev. Berlin, 1902. 2 v., il., 7 x 5, ro.
- 16a LAW, HENRY. Rudiments of civil engineering for the use of beginners. new ed. Lond., 1852. 2 v. in 1, il., 7 x 4, cl.
- 108a MACH, ERNST. Science of mechanics: A critical and historical exposition of its principles; tr. fr. the second German ed. by Thomas J. McCormack. ed. 2, rev. and enl. Chic., 1902. 18 + 605 pp., il., 8 x 5, cl.
- 12a MAHAN, D. H. Elementary course of civil engineering for the use of cadets of the United States Military Academy. ed. 4. N. Y., 1849. 358 pp., il., 9 x 6, cl.
- 111 MERRIMAN, MANSFIELD. Strength of materials: A text-book for manual training schools. ed. 2, rev. N. Y., 1898. 124 pp., il., 11 tab., 7 x 5, cl.
- 109 —Text-book on the mechanics of materials and of beams, columns and shafts. ed. 9, rev. N. Y., 1900. 10 + 368 pp., il., 9 x 6, pap.
- 62 MÜLLER-BRESLAU, H. F. B. Die neueren Methoden der Festigkeitslehre und der Statik der Baukonstruktionen, ausgehend von dem Gesetze der virtuellen Verschiebungen und den Lehrsätzen über die Formänderungsarbeit. ed. 2, rev. and enl. Leipzig, 1893. 6 + 241 pp., il., 9 x 6, pap.

V—(Continued).

- 117 PREAUDEAU, A. DE, and ERNEST PONTZEN. *Procédés généraux de construction travaux d'art.* (Encyclopédie des Travaux Publics.) Contents: v. 1, *Éléments des ouvrages.* Paris, 1901. 1 v., 10 x 7, pap.
- 78a RANKINE, W. J. M. *Manual of applied mechanics.* ed. 6, rev. Lond., 1872. 16 + 648 pp., il., 7 x 5, cl.
- 64 REISSNER, H. *Anwendungen der Statik und Dynamik monocyclischer Systeme auf die Elasticitätstheorie.* Leipzig, 1902. pp. 44-79, 9 x 6, pap.
- 65 — *Schwingungsaufgaben aus der Theorie des Fachwerks; Dissertation genehmigt von der Technischen Hochschule zu Berlin zur Erlangung der Würde eines Doktor-Ingenieurs.* Halle, 1902. 28 pp., 9 x 6, pap.
- 132 SANBORN, F. B. *Mechanics: Problems for engineering students.* N. Y., 1902. 155 pp., il., pl., 8 x 6, cl.
- 89a THURSTON, R. H. *Materials of engineering.* Contents: v. 1, *Non-metallic materials.* v. 2, *Iron and steel.* v. 3, *Non-ferrous metals and alloys.* N. Y., 1888-84. 3 v., il., pl., 9 x 6, cl.
- 4a TRAUTWINE, J. C. *Civil engineer's pocket-book, of mensuration, trigonometry, surveying, hydraulics, hydrostatics, instruments and their adjustments, strength of materials, etc.;* rev. by John C. Trautwine, Jr. ed. 17, rev. N. Y., 1896. 866 pp., il., 7 x 4, ro.
- 124 VERNON-HARCOURT, L. F. *Civil engineering as applied in construction.* Lond., 1902. 14 + 624 pp., il., 9 x 6, cl.
- 59 WAIT, J. C. *The engineer in construction contracts.* no place, 1902. pp. 101-119, 10 x 6, pap.
- 118 WINSLOW, B. E. *Winslow tables: Diagrams for calculating the strength of wood, steel and cast iron beams and columns.* N. Y., 1900. 14 pp., 19 pl., 9 x 12, cl.

GENERAL SCIENCE.

GENERAL SCIENCE—GENERAL.

Ya

- 27 CONGRESO INTERNACIONAL DE INGENIERIA, BARCELONA, 1888. Discursos, memorias y disertaciones. Barcelona, 1890. 424 pp., il., 10 pl., tab., 11 x 8, pap.
- 26 NEW YORK, UNIVERSITY OF THE STATE OF. Annual report of the Regents on the condition of the State Cabinet of Natural History, and the historical and antiquarian collection annexed thereto; 20th; 1866. Albany, 1867. 1 v., il., pl., 9 x 6, cl.
- 1 SCIENCE RECORD: A compendium of scientific progress and discovery during the past year; 1872. N. Y., 1872. 1 v., il., 8 x 5, cl.
- SMITHSONIAN INSTITUTION. Annual report of the Board of Regents showing the operations, expenditures and condition of the Institution for the year ending June 30th, 1896-1900. (See Sa3-19.1.)
- TEXAS ACADEMY OF SCIENCE. Transactions; together with the Proceedings; 1896-1900. (See Sa3-100.1.)
- 18 THURSTON, R. H. On the character of physical science and on the philosophic method of the advancement of science: Address before the American Association for the Advancement of Science at the St. Louis meeting, Aug., 1878. Salem, 1878. 20 pp., 10 x 6, pap.

GENERAL SCIENCE—AGRICULTURE AND FORESTRY.

Yb

- AMERICAN AGRICULTURAL ASSOCIATION. Journal; 1881 (v. 1, Nos. 1, 3-4). N. Y., 1881. 1 v., il., pl., tab., 9 x 7, b. p. Za-41, pp. 67, 327.
- 51 ARIZONA UNIVERSITY—AGRICULTURAL EXPERIMENT STATION. Annual report; 12th; for the year ending June 30th, 1901. no place, 1901. 1 v., il., 9 x 6, pap.
- 53 — Bulletin; Nos. 37, 41-42, 44; May, 1901; May-Sept., '02. Tucson, 1901-02. 4 v., il., 9 x 6, pap.
- ASHE, W. W. Forest fires; their destructive work, causes and prevention. 1895 (See Yh-196, Bulletin No. 7.)
- Forests, forest lands and forest products of Eastern North Carolina. 1894. (See Yh-196, Bulletin No. 5.)
- BACHELOR, DANIEL. Observations on the formation of permanent meadows and pastures. Utica, N. Y., 1884. 19 pp., il., 9 x 6, b. p. Zj-193, p. 525.
- 56 CHILE—DELEGACION FISCAL DE SALITRERAS Y GUANERAS. Informes consulares sobre propaganda salitrera. Iquique, 1897. 244 pp., tab., 9 x 6, pap.
- 30 COLORADO—AGRICULTURAL EXPERIMENT STATION. Bulletin; Nos. 25, 43-44, 54-73. Fort Collins, 1893-1902. 23 v., il., pl., 9 x 6, pap.
- 27 COLORADO—STATE BOARD OF AGRICULTURE. Annual report of the Board and the State Agricultural College; 22d; 1900. Note: Contains the Annual report of the Agricultural Experiment Station. Denver, 1901. 1 v., pl., tab., 9 x 6, cl.
- FREDERIKSEN, J. D. Creaming milk by centrifugal force: History and description of the process and of the various centrifugal milk separators. Little Falls, N. Y., 1884. 64 pp., il., 9 x 6, b. p. Zj-193, p. 573.
- 66 GEORGIA—STATE DEPARTMENT OF AGRICULTURE. Publications; v. 19, 21-22; 1893, '95-96. Atlanta, 1894-97. 3 v., il., 9 x 6, pap., cl.
- 57 ILLINOIS UNIVERSITY—AGRICULTURAL EXPERIMENT STATION. Annual report; 14th; for the year ending June 30th, 1901. Urbana, 1901. 1 v., 9 x 6, pap.
- 52 — Bulletin; Nos. 1-78; May, 1888-July, 1902. Note: Bulletins Nos. 7-8, 17-19, 28-31, 36-38, 48-49, 52, 54-57, 59 wanting. Champaign, 1888-1902. 56 v., il., 9 x 6, pap.
- 23 INDIANA—STATE BOARD OF AGRICULTURE. Annual report; 42d, 45th; 1892-'95. Indianapolis, 1893-96. 2 v., 9 x 6, cl.

GENERAL SCIENCE—AGRICULTURE AND FORESTRY. 255

Yb—(Continued).

- 21 **KANSAS—STATE BOARD OF AGRICULTURE.** Report for the quarter ending Sept., 1879; Mar., '82; Mar., '99; Dec., '99; Mar., 1901; Mar., '02. Topeka, 1879-1902. 6 v., il., pl., 9 x 6, pap.
- LATHAM, H.** Trans-Missouri stock raising; the pasture lands of North America; winter grazing; the sources of the future beef and wool supply of the United States: A description of the vast region lying between the Arkansas on the south, the British possessions on the north, the One Hundredth Meridian on the east and the summit of the Rocky Mountains on the west. Omaha, 1871. 88 pp., map, 9 x 6, b. p. Za-36, p. 319.
- 65 **LE FEUVRE, R. F.** Notes on the vine-growing industry in Chile. Santiago, 1901. 10 pp., 7 x 5, pap.
—Short sketch on the "Quinta Normal de Agricultura," Santiago, Chile. 1901. (See Ye-288.)
- 58 **MAIDEN, J. H.** Notes on the commercial timbers of New South Wales. Sydney, 1895. 32 pp., 10 x 6, pap.
- 43 **MASSACHUSETTS—AGRICULTURAL COLLEGE—HATCH EXPERIMENT STATION.** Annual report; 12th; 1899. Bost., 1900. 1 v., il., tab., 9 x 6, pap.
- MASSACHUSETTS—CENSUS, 1895.** Statistics relating to fisheries, commerce and agriculture. 1899. (See Qc-30, v. 6.)
- MINNESOTA—COMMISSIONER OF STATISTICS.** Statistics pertaining to agriculture; 1879, '82, '84. (See Qc-36.)
- MONTANA—BUREAU OF AGRICULTURE, LABOR AND INDUSTRY.** Report; 2d, 6th-7th; 1894, '98-1900. (See Zj-208.)
- 70 **NEW HAMPSHIRE—FORESTRY COMMISSION.** Report; 3d; 1895-96. Concord, 1897. 1 v., map, 9 x 6, cl.
- NEW JERSEY—GEOLOGICAL SURVEY.** Annual report of the State Geologist; 1896, '98-1901. (See Yh-22.)
- NEW YORK STATE—COLLEGE OF FORESTRY.** Annual report; 1900-01. (See Ye-295.)
- 49 — Bulletin; Nos. 1-6. Contents: 1. Aims and methods of the College of Forestry. 2. Beginnings of professional forestry in the Adirondacks. 3. Progress of forest management in the Adirondacks. 4. Fourth annual report of the Director; 1901. 5. Adirondack forest problem; by B. E. Fernow. 6. Testimony before the U. S. Industrial Commission in forestry matters; by B. E. Fernow. Note: Bulletins 2-4 are the annual reports of the Director. Ithaca, 1898-1902. 6 v., 8 x 5, pap.
- NEW YORK STATE—FISHERIES, GAME AND FOREST COMMISSION.** Annual report; 1898, 1900. (See Zf-22.)
- 25 **NEW YORK STATE—FOREST COMMISSION.** Annual report; 2d, 9th; 1886, '94. Albany, 1887-94. 2 v., il., maps, 9 x 6, cl.
- 26 **NEW YORK STATE—FOREST PRESERVE BOARD.** Annual report; 3d-4th; 1899-1900. Albany, 1900-01. 2 v., 9 x 6, pap.
- NEW YORK STATE—WEATHER BUREAU.** Report (monthly); 1899-1901. (See Yj-62.)
- 45 **ONTARIO—ROYAL COMMISSION ON FORESTRY PROTECTION.** Report; 1899. Note: Relates to the subject of restoring and preserving the growth of white pine and other timber trees upon lands in the Province, which are not adapted for agricultural purposes or for settlement. Toronto, 1900. 22 pp., map, 9 x 6, pap.
- 50 **PENNSYLVANIA—BOARD OF AGRICULTURE.** Quarterly reports; 41st-42d; 1890. Harrisburg, 1890. 1 v., il., pl., 10 x 6, pap.
- 69 **PHILBERT, J.** Génie rural; constructions rurales et machines agricoles, suivi de l'Art du géomètre rural, par O. Roux. (Bibliothèque du Conducteur de Travaux Publics.) Paris, 1902. 8 + 422 pp., il., 7 x 5, ro.
- PINCHOT, GIFFORD, and W. W. ASHE.** Timber trees and forests of North Carolina. 1897. (See Yh-196, Bulletin No. 6.)
- 71 **PRADES, F.** Agriculture. (Bibliothèque du Conducteur de Travaux Publics.) Paris, 1896. 423 pp., il., 7 x 5, ro.
- RUGGLES, S. B.** Tabular statements from 1840 to 1870, of the agricultural products of the states and territories of the United States of America, classified by their proximity to the oceans and other navigable waters, natural and artificial. N. Y., 1874. 50 pp., tab., 9 x 6, b. p. Ah-77, p. 437.
- 48 **ST. XAVIER, FELIX.** Conservation of the natural tree-cover; the water-systems of the earth; arid lands. no place, no date. 27 pp., 8 x 5, pap.
- 67 **SALVADOR, P. L.** Hydraulique agricole. (Bibliothèque du Conducteur de Travaux Publics.) Contents: v. 1, Cours d'eau non navigables ni flottables. v. 2, Des irrigations. v. 3, Assainissements et dessèchements. Paris, 1896-1900. 3v., il., 8 x 5, ro.
- 55 **SCHNEIDER, TEODORO.** Agriculture as it is conducted in Chile. Buffalo, 1901. 20 pp., 9 x 6, pap.

256 GENERAL SCIENCE—AGRICULTURE AND FORESTRY.

Yb—(Continued).

- 44 SCHRENK, HERMANN VON. Fungous diseases of forest trees. no place, 1900. pp. 200-210, pl., 9 x 6, pap.
- SPRINGFIELD, MASS.—DEPARTMENT OF FORESTRY. Annual report of the City Forester; 1898-99. (See Os80-3.1.)
- TAIT, J. S. Cattle-fields of the far West; their present and future. Edin., 1884. 71 pp., 9 x 6, b. p. Zj-191, p. 349.
- UNITED STATES—BUREAU OF FOREIGN COMMERCE. School gardens in Europe. 1900. (See Zd-14, Special consular reports, v. 20, Pt. 2.)
- UNITED STATES—BUREAU OF STATISTICS (TREASURY DEPT.). Statistics relating to agriculture; 1901. (See Qc-37.)
- UNITED STATES—CENSUS, 9th, 1870. Statistics of the wealth and industry of the United States, embracing the tables of wealth, taxation, and public indebtedness, of agriculture, manufactures, mining and the fisheries; comp. by Francis A. Walker. 1872. (See Qc-9.5.)
- 47 UNITED STATES—DEPARTMENT OF AGRICULTURE. Some diseases of New England conifers: A preliminary report; by Hermann von Schrenk. (Division of Vegetable Physiology and Pathology. Bulletin No. 25.) Wash., 1900. 56 pp., il., 15 pl., 9 x 6, pap.
- 48 —Two diseases of red cedar, caused by *Polyporus juniperinus* n. sp. and *Polyporus carneus* nees.: A preliminary report; by Hermann von Schrenk. (Division of Vegetable Physiology and Pathology. Bulletin No. 21.) Wash., 1900. 22 pp., il., 7 pl., 9 x 6, pap.
- UNITED STATES—GEOLOGICAL SURVEY. Forest reserves. (See Yh-40.)

GENERAL SCIENCE—ASTRONOMY.

Yc

- AMERICAN EPHEMERIS AND NAUTICAL ALMANAC; 1873, '84, '99, 1904-05. (See Ka-37.)
- DAVIS, J. B. History of solar surveying instruments. 1902. (See R-92, p. 172.)
- INSTITUTION OF SURVEYORS, NEW SOUTH WALES. The Surveyor: The Journal of the Institution; 1900-01. (See Sg-3.1.)
- PREVOT, EUGENE. Rappel de quelques notions d'astronomie et géodésie. (Bibliothèque du Conducteur de Travaux Publics.) 1900. (See R-30, v. 2, p. 151.)
- UNITED STATES—COAST AND GEODETIC SURVEY. Eastern oblique arc of the United States and osculating spheroid; by Charles A. Schott. 1902. (See Qe-131.)
- Report of the Superintendent showing the progress of the work for the fiscal year ending June 30th, 1899-1901. (See Qe-80.)
- The transcontinental triangulation and the American arc of the parallel; by Chas. A. Schott. 1900. (See Qe-129.)
- 68 UNITED STATES—NAUTICAL ALMANAC OFFICE. Catalogue of 1098 standard clock and zodiacal stars, prepared under the direction of Simon Newcomb. no place, no date. pp. 147-314, tab., 12 x 9, cl.
- 8 UNITED STATES—NAVAL OBSERVATORY. Astronomical papers and meteorological observations; 1891-92. Note: Continued under the title "Publications." Wash., 1899. 2 v. in 1, 12 x 9, cl.
- 3a —Publications; ser. 2, v. 1-2. Note: Continuation of "Astronomical Papers and Meteorological Observations." Wash., 1900-02. 2 v., tab., 12 x 9, cl.
- Report of the Superintendent for the year ending June 30th, 1885-88, 1900-01. (See Ka-36.)
- 23 UNITED STATES—NAVY DEPARTMENT. Astronomical papers prepared for the use of the American Ephemeris and Nautical Almanac; v. 1, Pt. 5; v. 8, Pt. 1 (1881, '97). Wash., 1881-97. 2 v., 12 x 9, pap.
- UNITED STATES—WEATHER BUREAU. Eclipse meteorology and allied problems; by Frank H. Bigelow. 1902. (See Yj-92.)
- WILSON, H. M. Geodetic astronomy. 1900. (See R-42, p. 678.)

GENERAL SCIENCE—BOTANY.

Yc9

- 9 SCHRENK, HERMANN VON. Disease of the black locust (*Robinia Pseudacacia*). (Contributions from the Shaw School of Botany, No. 17.) no place, no date. 31 pp., 3 pl., 9 x 6, pap.
- Fungous diseases of forest trees. 1900. (See Yb-44.)

Yc9—(Continued).

- 8 UNITED STATES—GEOGRAPHICAL SURVEYS WEST OF THE ONE HUNDREDTH Meridian. Catalogue of plants collected in the years 1871, 1872 and 1873, with descriptions of new species. Wash., 1874. 62 pp., 9 x 6, pap.

GENERAL SCIENCE—CHEMISTRY.

Yd

- AMERICAN ELECTROCHEMICAL SOCIETY. Transactions; 1902. (See Sa3-183.2.)
- BAREAU, AD. Physique et chimie. (Bibliothèque du Conducteur de Travaux Publics.) 1896. (See Y1-82.)
- BLOUNT, BERTRAM. Practical electrochemistry. 1901. (See Hf-15.)
- CLARKE, F. W. Contributions to chemistry and mineralogy from the laboratory of the United States Geological Survey. (U. S. Geological Survey. Bulletin No. 167.) 1900. (See Yh-87.)
- 12a COOKE, J. P., Jr. The new chemistry. (International Scientific Ser.) N. Y., 1881. 333 pp., il., 8 x 5, cl.
- GILL, A. H. Gas and fuel analysis for engineers: A compend for those interested in the economical application of fuel; prepared especially for the use of students at the Massachusetts Institute of Technology. 1902. (See Gd-79.)
- 26 HILL, E. A. On a system of indexing chemical literature; adopted by the Classification Division of the U. S. Patent Office. no place, 1900. pp. 478-494, 9 x 6, pap.
- HILLEBRAND, W. F. Some principles and methods of rock analysis. (U. S. Geological Survey. Bulletin No. 176.) 1900. (See Yh-87.)
- JONES, H. C. Outlines of electrochemistry. 1901. (See Ha-65.)
- KRATZERT, HEINRICH. Elektrochemie. 1902. (See Ha-77, v. 2. Pt. 4.)
- SOCIETY OF CHEMICAL INDUSTRY. Address by the President, Charles F. Chandler, delivered at the annual general meeting, held in the lecture theatre of the Royal Institution, Albemarle Street, London, W., July 18th, 1900. (See Sd6-27.3.)
- 31 STADELER, G., and H. KOLBE. Guía para el análisis cualitativo de los cuerpos inorgánicos; vertida al castellano por Enrique Stüven. Santiago, 1891. 35 pp., 9 x 7, bds.
- STOKES, H. N. On pyrite and marcasite. (U. S. Geological Survey. Bulletin No. 186.) 1901. (See Yh-87.)

GENERAL SCIENCE—EDUCATION.

Ye

- 308 AACHEN KÖNIGLICHE TECHNISCHE HOCHSCHULE. Denkschrift, verfasst aus Anlass der Industrie- und Gewerbe-Ausstellung für Rheinland, Westfalen und benachbarte Bezirke, verbunden mit einer deutschen nationalen Kunstausstellung, Düsseldorf, 1902. Aachen, 1902. 89 pp., il., pl., 11 x 9, pap.
- 282 — Feste der Begehung des zweihundertjährigen Bestehens des Königreichs Preussen und zur Vorfeier des zweihundertvierzigsten Geburtstages Sr. Majestät des deutschen Kaisers und Königs von Preussen, Wilhelms II.; gehalten am 18. Januar 1901 in der Aula der Königlichen Technischen Hochschule zu Aachen. N. Holz. Aachen, 1901. 22 pp., il., 9 x 6, pap.
- 88 — Programm der Königlichen Technischen Hochschule zu Aachen für das Studienjahr; 1901-02. Aachen, 1901-02. 2 v., 10 x 7, pap.
- BATES COLLEGE. Annual address of the President to the Corporation; 13th-14th; 1876-77. Lewiston, Me., 1876-77. 2 v., 9 x 6, b. p. Za-39, pp. 247, 259.
- Same; 18th; 1881. Lewiston, 1881. 1 v., 9 x 6, b. p. Ae-390, p. 311.
- 278 BERLIN KÖNIGLICHE TECHNISCHE HOCHSCHULE. Die Hundertjahrfeier der Königlichen Technischen Hochschule zu Berlin. 18.-21. October, 1899. Berlin, 1900. 210 pp., il., 14 x 12, cl.
- 90 — Programm für das Studienjahr; 1901-02. Berlin, no date. 2 v., 8 x 6, pap.
- 277 BRÜNN K. K. TECHNISCHE HOCHSCHULE. Festschrift der K. K. Technischen Hochschule in Brünn zur Feier ihres fünfzigjährigen Bestehens und der Vollendung des Erweiterungsbaues im October 1899; mit Unterstützung des K. K. Ministeriums für Cultus und Unterricht herausgegeben vom Professoren-Collegium. Brünn, 1899. 392 pp., il., 9 pl., 12 x 9, 1/2 cl.
- 287 CHILE. Notes on public instruction in Chile. P. N. Prendez. Santiago, 1901. 80 pp., pl., 10 x 7, pap.
- 289 CHILE, UNIVERSIDAD DE. Tratado de administración pública aplicado al curso de ingenieros de la Universidad de Chile. H. F. de Arce. Santiago, 1896. 372 pp., 10 x 7, pap.

Ye - (Continued).

- 296 **COLUMBIA UNIVERSITY.** Officers and graduates of Columbia University; general catalogue, 1754-1900. N. Y., 1900. 760 pp., facsim., 9 x 6, cl.
- 296a —Same; Supplement No. 1, 1900-01. N. Y., 1902. 24 pp., 9 x 6, pap.
- 266 **COOPER UNION FOR THE ADVANCEMENT OF SCIENCE AND ART.** Annual report; 41st; 1900. N. Y., 1900. 1 v., por., 9 x 6, pap.
- 143 **CORNELL UNIVERSITY.** Annual report of the President; 1890-91. Ithaca, 1891. 1 v., 9 x 6, pap.
- 142 —Register; 1889-90, '97-1901. Ithaca, 1889-1901. 5 v., pl., 8 x 5, pap.
- 268 —Report of Robert H. Thurston, Director of Sibley College (sixteenth regular report), to the Board of Trustees of Cornell University, on the occasion of the fifteenth anniversary of the organization of the College. Ithaca, 1900. 88 pp., pl., 9 x 6, pap.
- ECOLE ROYALE HONGROISE DES COMMS DE L'HYDRAULIQUE AGRICOLE.** Joseph Udranszky. 1900. (See Ca-92, Brochure 6.)
- EUROPE.** School gardens in Europe. U. S.-Bureau of Foreign Commerce. 1900. (See Zd-14, Special consular reports, v. 20, Pt. 2.)
- GENERAL.**
- AMERICAN SOCIETY OF CIVIL ENGINEERS.** Discussions on technical education at the Washington meeting of the American Institute of Mining Engineers, Feb. 22d and 23d, 1876, and at a joint meeting of the American Society of Civil Engineers and the American Institute of Mining Engineers at Philadelphia on June 19th and 20th, 1876. (See Sa3-1.12.)
- 265 **BAILLAIRGE, C. P. F.** Educational: Word lessons. Quebec, no date. 19 pp., 9 x 6, pap.
- 280 **BERG, W. G.** Education of railroad men for subordinate positions of responsibility, more particularly with reference to employees of the bridge and building department of railroads. no place, 1900. 20 pp., 9 x 6, pap.
- BULLOCK, A. H.** Relations of the educated man with American nationality: Address before the literary societies of Williams College, Aug. 1st, 1864. Bost., 1864. 32 pp., 9 x 6, b. p. Za-42, p. 253.
- HOERSCHELMANN, E. F. DE, and S. M. JITKOFF.** Institutions d'instruction pour le personnel de la batellerie: Communication. (International Cong. on Navigation, 8th.) Paris, 1900. 6 pp., 11 x 7, pap. Ca-8.46.
- 305 **JOHNSON, J. B.** Two kinds of education for engineers: An address before the students of the College of Engineering of the University of Wisconsin. no place, 1901. 16 pp., 9 x 6, pap.
- MICHIGAN SCHOOLMASTERS' CLUB.** Proceedings at the meeting; 1900. (See Sa3-139.1.)
- 285 **MORISON, G. S.** Responsibilities of the educated engineer: An address delivered at Purdue University, on Commencement Day, June 12th, 1901. Lafayette, 1901. 29 pp., 9 x 6, pap.
- 279 **PARSONS, W. B.** Engineering as a profession: Founders' Day address, Cornell University, Jan. 11th, 1901. no place, 1901. 16 pp., 9 x 6, pap.
- PHILLIPS, WENDELL.** The scholar in a republic: Address at the centennial anniversary of the Phi Beta Kappa of Harvard College, June 30th, 1881. Bost., 1881. 34 pp., 9 x 7, b. p. Za-41, p. 1.
- SOPER, G. A.** Hygiene as a factor in education. 1902. (See Eg-120.)
- 80 **HANNOVER KÖNIGLICHE TECHNISCHE HOCHSCHULE.** Programm für das Jahr; 1901-03. Hannover, 1901-02. 2 v., 9 x 6, pap.
- 281 —Promotions-Ordnung für die Ertheilung der Würde eines Doktor-Ingenieurs durch die Königl. Technische Hochschule zu Hannover. Hannover, 1900. 6 pp., 9 x 6, pap.
- 306 —Verfassungs-Statut der Königl. Technischen Hochschule zu Hannover und Regulativ betreffend die Organisation der Abtheilungen an derselben. Hannover, 1884. 23 pp., 8 x 5, pap.
- 189 **HARVARD UNIVERSITY.** Annual reports of the President and Treasurer; 1897-98, 1900-01. Cambridge, 1899-1902. 2 v., 9 x 6, pap.
- Annual statement of the Treasurer; 1873. Bost., 1873. 1 v., 9 x 6, b. p. no title-page. Zj-194, p. 255.
- 188 —Catalogue; 1900-01. Cambridge, 1901. 1 v., 7 x 5, pap.
- IMPERIAL UNIVERSITY OF JAPAN.** See Tokio Imperial University.
- 148 **INDIANA.** Report of the Superintendent of Public Instruction; 39th; for the year ending July 31st, 1891-92. Indianapolis, 1893. 1 v., tab., 9 x 6, cl.
- 207 **KANSAS, UNIVERSITY OF.** Annual catalogue; 35th; 1900-01. Lawrence, 1901. 1 v., pl., 9 x 6, pap.
- Annual commencement oration, June 10th, 1890. Topeka, 1890. 1 v., 9 x 6, b. p. Aa-79, p. 67.
- 284 **KINGSTON, ONT., SCHOOL OF MINING.** Calendar; 1901-02. Kingston, 1901. 1 v., il., 7 x 5, pap.

Ye—(Continued).

- 291 **LAFAYETTE COLLEGE.** Addresses delivered at the dedication of Gayley Hall, Lafayette College, Apr. 5th, 1902. Easton, 1902. 29 pp., il., 8 x 6, pap.
- 302 — Catalogue, including the courses of study in the classical and scientific departments embracing the Schools of Civil, Mining and Electrical Engineering, and of Chemistry; 1901-02. Easton, 1902. 1 v., il., 8 x 5, pap.
- 290 — Some pages of its past, pictures of its present, and forecast of its future. no place, no date. 63 pp., il., 8 x 6, pap.
- 107 **LEHIGH UNIVERSITY.** Register; 1882-83, '86-87, '93-97, 1900-02. South Bethlehem, 1883-1902. 8 v., 7 x 5, pap.
- 181 **MCGILL COLLEGE AND UNIVERSITY.** Annual calendar; 1900-03. Montreal, 1900-02. 3 v., pl., 8 x 6, cl.
- 98 **MASSACHUSETTS INSTITUTE OF TECHNOLOGY.** Annual catalogue of the officers and students, with a statement of the courses of instruction, and a list of the alumni and of the members of the Society of Arts; 36th-37th; 1900-02. Bost., 1901-02. 2 v., 9 x 6, pap.
- 97 — Annual report of the President and Treasurer; 1900-01. Bost., 1900-02. 2 v., 9 x 6, pap.
- 310 **MICHIGAN COLLEGE OF MINES.** Year book; 1902. Houghton, 1902. 1 v., map, 7 x 5, pap.
- 186 **MICHIGAN, UNIVERSITY OF.** Department of Engineering: Annual announcement and register of alumni; 1899-1902. Note: Annual announcement for 1899-1900 contains register of alumni for 1860-98. Ann Arbor, 1899-1900. 2 v., 7 x 5, pap.
- 168 **NEW YORK CITY.** Analysis of school expenses of the City of New York: Report to the Board of Directors of the Merchants' Association of New York; by Frederick B. De Berard, Dec. 19th, 1900. N. Y., 1900. 20 pp., 8 tab., 11 x 9, pap.
- 180 — Increase in taxation and the outlays of the Board of Education. Merchants' Association of New York. Note: Relates to the causes of excessive taxation in the city. N. Y., 1901. 15 pp., 9 x 6, pap.
- 312 **NEW YORK STATE.** Annual report of the Superintendent of Common Schools; 1837-38, '40-41. Albany, 1838-42. 4 v. in 1, 10 x 8, ¾ sh.
- 295 **NEW YORK STATE—COLLEGE OF FORESTRY.** Annual report; 3d-4th; 1900-01. Note: For Annual reports 1st-2d, 1898-99, see Yb-49, Bulletin 2. Albany, 1901-02. 2 v., maps, 9 x 6, pap.
- 152 **NEW YORK UNIVERSITY.** Catalogue and announcements; 1889-85, '86-88, '89-1902. N. Y., 1881-1902. 20 v., maps, 9 x 6, 7 x 5, pap.
- 282 — School of Applied Science: Announcements; 1901-02. N. Y., 1901. 1 v., 9 x 6, pap.
- 274 **NEW YORK, UNIVERSITY OF THE STATE OF.** Annual report of the College Department; 1st-8d; 1898-1900. Note: This department was formed in June, 1898, upon the discontinuance of the Examination Department. Albany, 1899-1901. 4 v., 9 x 6, cl.
- 275 — Annual report of the High School Department; 6th-7th; 1898-99. Note: This department is a continuation of the High School Section of the Examination Department. Albany, 1899-1900. 4 v., 9 x 6, cl.
- 192 — Annual report of the Regents; 114th; 1900. Albany, 1901. 1 v., pl., maps, 9 x 6, cl.
- 195 — Extension bulletin; Nos. 29-38; 1899-1901. Note: Beginning with No. 30, issued under the title *Home Education Bulletin*. Albany, 1899-1901. 10 v., 10 x 7, pap.
- 166 **PENNSYLVANIA, UNIVERSITY OF.** Catalogue; 1880-93, 1900-02. Phil., 1880-1901. 16 v., pl., tab., 8 x 5, pap., cl.
- 301 — Directory of graduates in civil, mechanical, electrical and chemical engineering; 1875-99. no place, 1900. 1 v., pl., 5 x 3, ro.
- 311 **PRINCETON UNIVERSITY.** Catalogue of all who have held office in or who have received degrees from the College of New Jersey; 1846-96. Princeton, 1896. 1 v., 9 x 6, pap.
- 208 **PURDUE UNIVERSITY.** Annual catalogue; 1900-02. Indianapolis, 1901-02. 2 v., 7 x 5, pap.
- 209 — Report; 26th; 1899-1900. Indianapolis, 1900. 1 v., 9 x 6, pap.
- 251 — Selected views. no place, 1900. unpag., il., 5 x 7, pap. no title-page.
- 130 **RENSSELAER POLYTECHNIC INSTITUTE.** Annual register; 1889-91, '93-95, '97-1901. Troy, 1889-1901. 11 v., pl., 9 x 6, pap.
- 227 **ROME, R. UNIVERSITA ROMANA.** Scuola d'Applicazione per gl'Ingegneri: Annuario; compilato dal Segretario della Scuola; 1900-03. Roma, 1900-02. 3 v., 5 x 4, pap.
- 276 — Scuola d'Applicazione per gl'Ingegneri: Programmi d'insegnamento pel quinquennio scolastico 1900-1901 a 1904-1905. Roma, 1900. 46 pp., 11 x 7, pap.
- 299 **ROSE POLYTECHNIC INSTITUTE.** Annual catalogue; with an outline of the courses of study and the plan of instruction; 1902. Terre Haute, 1902. 1 v., 9 x 6, pap.

Ye—(Continued).

- 300 —Department of civil engineering: Announcement; 1900. Terre Haute, 1900. 1 v., il., 9 x 6, pap.
- 288 SANTIAGO, CHILE, QUINTA NORMAL DE AGRICULTURA. Short sketch on the "Quinta Normal de Agricultura," Santiago, Chile. R. F. Le Feuvre. Santiago, 1901. 33 pp., pl., 10 x 7, pap.
- 150 STEVENS INSTITUTE OF TECHNOLOGY. Annual catalogue; 1871-76, '79-80, '86-87, '88-94, '95-1902. N. Y., 1871-1902. 17 v., 9 x 6, pap.
- 264 SYRACUSE UNIVERSITY. Illustrated bulletin giving views illustrative of where we are, what we are, and what we do. Syracuse, no date. 36 pp., il., 9 x 6, pap.
- 297 THOMAS S. CLARKSON MEMORIAL SCHOOL OF TECHNOLOGY. Catalogue; 1901-02. Potsdam, N. Y., 1902. 1 v., 9 x 6, pap.
- 109 TOKIO IMPERIAL UNIVERSITY. Calendar; 1901-02. Tokio, 1902. 1 v., 8 x 5, pap.
- 293 UNITED STATES. Colleges north and colleges south: An address before the Department of Higher Instruction of the National Educational Association at Topeka, Kans., July 16th, 1886. J. D. Dreher. Salem, 1887. 21 pp., 9 x 6, b. p.
- 298 —Education at the South: Address before the Yale Chapter of the Phi Beta Kappa, at Linonia Hall, New Haven, Conn., Feb. 9th, 1887. D. H. Chamberlain. N. Y., 1887. 26 pp., 9 x 6, b. p.
- 1 UNITED STATES—BUREAU OF EDUCATION. Report of the Commissioner; June, 1898-1900. Wash., 1900-01. 4 v., il., pl., 9 x 6, cl.
- UNITED STATES—BUREAU OF STATISTICS (TREASURY DEPT.). Statistics relating to education; 1878-79, '82, 1900-01. (See Qc-37.)
- WASHINGTON, D. C. Annual report of the Commissioners of the District of Columbia for the year ending June 30th, 1896. (See Od40-2.1.)
- 294 WISCONSIN UNIVERSITY. Catalogue; 1900-01. Madison, 1901. 1 v., 7 x 5, pap.
- 151 WORCESTER POLYTECHNIC INSTITUTE. Annual catalogue; 29th-32d; 1899-1902. Worcester, 1899-1902. 4 v., 9 x 6, pap.
- 296 YALE UNIVERSITY. Directory of the living graduates; 1901. New Haven, 1901. 1 v., 8 x 5, pap.

GENERAL SCIENCE—EXHIBITIONS.

Yf

- BUFFALO EXHIBITION, 1901. Brief notes on Chile and general catalogue of Chile exhibits. Chile-Pan-American Exposition Commission. 1901. (See Qd-113.)
- Catalogue of fine arts in the Chile Building. 1901. (See Ze-14, p. 18.)
- 155 CHICAGO INTERNATIONAL EXHIBITION, 1893. Classification of Department of Transportation exhibits: Railways, vessels, vehicles. Chic., no date. 24 pp., pl., 8 x 6, pap.
- 154 —Report of the Sub-Committee to the Joint Committee on Transportation, Oct. 31st, 1891. Chic., 1891. 18 pp., 8 x 6, pap.
- 153 —Traffic arrangements: General rules and regulations affecting transportation of foreign exhibits. Chic., 1892. 34 pp., pl., maps, 9 x 6, pap.
- PAN-AMERICAN EXHIBITION, 1901. See Buffalo Exhibition, 1901.
- PARIS INTERNATIONAL EXHIBITION, 1878. American engineering as illustrated by the American Society of Civil Engineers at the Paris Exposition of 1878; comp. by George S. Morison, Edward P. North, John Bogart, a Committee appointed by the Society to prepare the exhibit. 1878. (See Sa3-1.15.)
- 167 PARIS INTERNATIONAL EXHIBITION, 1900. Catalogue of exhibitors in the United States sections. Paris, 1900. 2 v., 8 x 5, pap.
- 157 —Exposition Universelle de 1900: Groupe 4; mécanique général, Classe 19; machines à vapeur: Exposition collective des Associations Françaises de Propriétaires d'Appareils à Vapeur. Paris, 1900. 12 pp., il., 9 x 6, pap.
- 169 —Exposition Universelle de 1900: Notice sur les voies navigables, les chaussées et les ports de commerce de la Russie, par N. Vosnessensky: Catalogue des objets exposés par la Direction. Russia-Direction des Voies Navigables des Chaussées et des Ports de Commerce. (Ministère des Voies de Communication.) Paris, 1900. 64 pp., 9 x 6, pap.
- 85 —Exposition Universelle de 1900: Section Portugaise: Notice sur les études de résistance et essais des matériaux de construction en Portugal. J. P. Castanheira das Neves. Lisbonne, 1900. 54 pp., 6 pl., 3 tab., 9 x 6, pap.
- 149 —Exposition Universelle de Paris, 1900: Notice sur les objets exposés par V. E. de Timonoff. St. Pétersbourg, 1900. 28 pp., 9 x 6, pap.
- 156 —General rules and regulations of the Paris Exposition of 1900, France-President. Chic., no date. 18 + 1 pp., 9 x 6, pap.
- 150 —Gli impianti meccanici ed elettrici per i servizi tecnici generali dell'esposizione. Gaetano Crugnola. Torino, 1900. 29 pp., il., pl., 9 x 6, pap.

Yf—(Continued).

- 168 —Notices sur les appareils d'éclairage modèles et dessins exposés par le Service des Phares. France—Ministère des Travaux Publics. Paris, 1900. 11 + 336 pp., il., pl., 9 x 6, pap.
- PHILADELPHIA INTERNATIONAL EXHIBITION, 1876.** Illustrated plan of the principal portion of the City of Philadelphia extended to embrace its Centennial grounds showing the general buildings of the great International Exhibition. L. Behrens, comp. 1876. (See Qf-596.)
- Report of the Bureau of Transportation to the Director-General, Jan. 31st, 1877. U. S.—Centennial Commission. Phil., 1877. 132 pp., il., tab., 9 x 6, b. p. Aa-82, p. 625.
- 152 **ST. LOUIS INTERNATIONAL EXHIBITION, 1904.** Official classification of exhibit departments. no place, 1901. 58 pp., 9 x 6, pap.
- 151 —Rules and regulations. St. Louis, 1901. 13 pp., 9 x 6, pap.
- 86 —World's Fair, St. Louis, 1904. A book of beautiful engravings, illustrating the great enterprise in its important features, with portraits of officers and brief descriptions of buildings, etc. R. A. Reid, pub. St. Louis, 1902. 47 pp., il., 9 x 9, pap.

GENERAL SCIENCE—GEOLOGY.

Yh

- AFRICA.** Tarquah gold-field, Gold Coast, South Africa. A. R. Sawyer. 1902. (See Sd6-3.1, v. 24, p. 124.)
- 210 **ALABAMA.** On the Warrior coal field; by Henry McCalley. Alabama-Geological Survey. Montgomery, 1886. 15 + 571 pp., 9 x 6, pap.
- 211 —Report of progress; 1875-76, '79-80. Alabama-Geological Survey. Montgomery, 1878-81. 8 v., map in pocket, tab., 9 x 6, pap.
- 198 —Report on the coal measures of Blount Mountain; by A. M. Gibson. Alabama-Geological Survey. Montgomery, 1893. 80 pp., map, 9 x 6, pap.
- 199 —Report on the coal measures of the Plateau Region of Alabama; by Henry McCalley; including a report on the coal measures of Blount County, by A. M. Gibson. Alabama-Geological Survey. Montgomery, 1891. 238 pp., map, 9 x 6, pap.
- ALASKA.** Explorations in Alaska in 1898. U. S.—Geological Survey. 1900. (See Yh-40, Annual report, 1898-99, Pt. 7.)
- 214 —(geology and mineral resources of a portion of the Copper River District, Alaska; by Frank Charles Schrader and Arthur Coe Spencer. U. S.—Geological Survey. Wash., 1901. 94 pp., pl., maps, 11 x 8, pap.
- 191 —Map of Alaska showing known gold-bearing rocks, with descriptive text containing sketches of the geography, geology and gold deposits and routes to the gold fields. U. S.—Geological Survey. Wash., 1898. 44 pp., map, 9 x 6, pap.
- Preliminary report on a reconnaissance along the Chandlar and Koyukuk Rivers, Alaska, in 1899. F. C. Schrader. (U. S. Geological Survey.) 1901. (See Yh-40, Annual report, 1899-1900, Pt. 2, p. 441.)
- 170 —Preliminary report on the Cape Nome gold region, Alaska; by Frank C. Schrader and Alfred H. Brooks. U. S. Geological Survey. Wash., 1900. 56 pp., 19 pl., maps, 9 x 6, pap.
- Reconnaissance from Pyramid Harbor to Eagle City, Alaska, including a description of the copper deposits of the Upper White and Tanana Rivers. A. H. Brooks. (U. S. Geological Survey.) 1901. (See Yh-40, Annual report, 1899-1900, Pt. 2, p. 331.)
- Reconnaissance of the Chitina River and the Skolai Mountains, Alaska. Oscar Rohn. (U. S. Geological Survey.) 1901. (See Yh-40, Annual report, 1899-1900, Pt. 2, p. 308.)
- 220 —Reconnaissances in the Cape Nome and Norton Bay regions, Alaska, in 1900; by Alfred H. Brooks, George B. Richardson, Arthur J. Collier and Walter C. Mendenhall. U. S.—Geological Survey. Wash., 1901. 223 pp., pl., maps, 12 x 8, pap.
- ARKANSAS.** Arkansas bauxite deposits. C. W. Hayes. (U. S. Geological Survey.) 1901. (See Yh-40, Annual report, 1899-1900, Pt. 3, p. 435.)
- Preliminary report on the Camden coal field of Southwestern Arkansas. J. A. Taft. (U. S. Geological Survey.) 1901. (See Yh-40, Annual report, 1899-1900, Pt. 2, p. 313.)
- BLACK HILLS.** Laccoliths of the Black Hills; with a chapter on experiments illustrating intrusion and erosion, by Ernest Howe. T. A. Jaggar, Jr. (U. S. Geological Survey.) 1901. (See Yh-40, Annual report, 1899-1900, Pt. 3, p. 163.)
- Preliminary description of the geology and water resources of the southern half of the Black Hills and adjoining regions in South Dakota and Wyoming. N. H. Darton. (U. S. Geological Survey.) 1901. (See Yh-40, Annual report, 1899-1900, Pt. 4, p. 499.)

Yh—(Continued).

- 199 **BLOUNT COUNTY, ALA.** Report on the coal measures of the Plateau Region of Alabama; by Henry McCalley; including a report on the coal measures of Blount County, by A. M. Gibson. Alabama-Geological Survey. Montgomery, 1891. 238 pp., map, 9 x 6, pap.
- 225 **BRAZIL.** Revista do Museu Nacional do Rio de Janeiro; v. 1. Rio de Janeiro, 1895. 1 v., ll., pl., 12 x 9, pap.
- CALIFORNIA.** Catalogue of Californian fossils; Pts. 2-5; 1894. J. G. Cooper. (See Ma-15, No. 4.)
- Genesis of petroleum and asphaltum in California. A. S. Cooper. 1899. (See Ma-15, No. 16.)
- Geologic atlas of the United States: California folios. U. S.-Geological Survey, 1898-1900. (See Qf-389.4.)
- Mother lode region of California. W. H. Storms. 1900. (See Ma-15, No. 18.)
- 220 **CAPE NOME, ALASKA.** Reconnaissances in the Cape Nome and Norton Bay regions, Alaska, in 1900; by Alfred H. Brooks, George B. Richardson, Arthur J. Collier and Walter C. Mendenhall. U. S.-Geological Survey. Wash., 1901. 222 pp., maps, 12 x 8, pap.
- 216 **CHILE.** Avaluos y registros de cateos de los terrenos salitrales del estado en Tarapacá. Chile-Delegacion Fiscal de Salitreras y Guaneras. Iquique, 1900. 57 pp., maps, 9 x 6, bds.
- 215 —Memoria presentada al Señor Ministro de Hacienda; 1898-1901. Chile-Delegacion Fiscal de Salitreras y Guaneras. Iquique, 1898-1901. 4 v., tab., 10 x 7, pap.
- COLORADO.** Geologic atlas of the United States: Colorado folios. U. S.-Geological Survey. 1899-1901. (See Qf 389.5.)
- Geological and geographical atlas of Colorado and portions of adjacent territory; by F. V. Hayden. U. S.-Geological and Geographical Surveys of the Territories. 1881. (See Qf-613.)
- Geology of the Rico Mountains, Colo. Whitman Cross and A. C. Spencer. (U. S. Geological Survey.) 1901. (See Yh-40, Annual report, 1899-1900, Pt. 2, p. 7.)
- Notes on the geology of the survey for the extension of the Union Pacific Ry., E. D., from the Smoky Hill River, Kans., to the Rio Grande. J. L. Leconte. 1868. (See Ab-387.)
- Report on the economic geology of the Silverton Quadrangle, Colo. F. L. Ramsome. (U. S. Geological Survey. Bulletin No. 182.) 1901. (See Yh-87.)
- CONNECTICUT.** Newark system of the Pomperaug Valley, Conn. W. H. Hobbs. (U. S. Geological Survey.) 1901. (See Yh-40, Annual report, 1899-1900, Pt. 3, p. 7.)
- 214 **COPPER RIVER DISTRICT, ALASKA.** Geology and mineral resources of a portion of the Copper River District, Alaska; by Frank Charles Schrader and Arthur Coe Spencer. U. S.-Geological Survey. Wash., 1901. 94 pp., pl., maps, 11 x 8, pap.
- DISTRICT OF COLUMBIA.** Geologic atlas of the United States: District of Columbia folios. U. S.-Geological Survey. 1901. (See Qf-389.8.)
- EL PASO, TEX.** El Paso tin deposits. W. H. Weed. (U. S. Geological Survey. Bulletin No. 178.) 1901. (See Yh-87.)
- ENGLAND.** Geological map of England and Wales. A. C. Ramsay. no date. (See Qf-544.)
- GENERAL.**
- 224 **BAILLAIRGE, C. P. F.** L'antiquité de la terre et de l'homme. no place, 1899. 23 pp., 9 x 6, b. p.
- BROUGH, B. H.** Cantor lectures on the nature and yield of metalliferous deposits. 1900. (See Ma-61.)
- 217 **CHARPENTIER, HENRI.** Géologie et minéralogie appliquées; les minéraux utiles & leurs gisements. (Bibliothèque du Conducteur de Travaux Publics.) Paris, 1900. 11 + 643 pp., il., 8 x 5, ro.
- 201 **DISTRICT OF COLUMBIA—ENGINEER DEPARTMENT.** Extract from the report of the Inspector of Asphalt and Cements: Tests of lake and land asphalts. no place, 1892. 67 pp., tab., 9 x 6, pap.
- 203 **ECKEL, E. C.** Formation as the basis for geological mapping. Chic., no date pp. 708-717, 9 x 7, pap.
- 204 —Summaries of the literature of structural materials; 1. no place, 1902. 1 v., 10 x 7, pap.
- HAMILTON, S. H., and J. R. WITHROW.** Progress of mineralogy in 1899: An analytical catalogue of the contributions to that science published during the year. 1900. (See Sa3-3.5, Bulletin No. 2.)
- KEMP, J. F.** Geological relations and distribution of platinum and associated metals. (U. S. Geological Survey. Bulletin No. 193.) 1902. (See Yh-87.)

Yh—(Continued).

GENERAL—(Continued).

- 190 **OVERMAN, FREDERICK.** Practical mineralogy, assaying and mining; with a description of the useful materials, and instructions for assaying and mining according to the simplest methods. ed. 2. Phil., 1853. 10 + 230 pp., 7 x 4, cl.
- WOODWARD, S. P.** Manual of the mollusca; or, Rudimentary treatise of recent and fossil shells. 1851-56. (See Yn-17.)
- 206 **GEORGIA.** Catalogue of ores, rocks and woods, selected from the Geological Survey collection of the State, with a description of the geological formations; by George Little, State Geologist. Atlanta, 1878. 16 pp., 9 x 6, pap.
- GERMANY.** Oberflächengestalt und geologische Verhältnisse. Preussischer Wasser-Ausschuss. Note: Relates to the Weser and Ems Basins. 1901. (See Cb-782, v. 1, p. 122.)
- IDAHO.** Geology and water resources of Nez Perce County, Idaho. I. C. Russell. (U. S. Geological Survey. Water Supply and Irrigation Papers.) 1901. (See De-81, Nos. 53-54.)
- Gold and silver veins of Silver City, De Lamar and other mining districts in Idaho. Waldemar Lindgren. (U. S. Geological Survey.) 1900. (See Yh-40, Annual report, 1898-99, Pt. 3, p. 65.)
- ILLINOIS.** Geologic atlas of the United States: Illinois folios. U. S.-Geological Survey. 1900. (See Qf-389.12.)
- Illinois glacial lobe. Frank Leverett. (U. S. Geological Survey. Monographs, v. 33.) 1899. (See Yh-41.)
- INDIA.** Geological report on the Hill Section of the Assam-Bengal Ry. H. H. Haydon. 1902. (See Aa-110, No. 112.)
- INDIAN TERRITORY.** Geology of the Eastern Choctaw coal field, Indian Territory. J. A. Taff and G. I. Adams. (U. S. Geological Survey.) 1901. (See Yh-40, Annual report, 1899-1900, Pt. 2, p. 257.)
- Geology of the McAlester-Lehigh coal field, Indian Territory. J. A. Taff. (U. S. Geological Survey.) 1899. (See Yh-40, Annual report, 1897-98, Pt. 3, p. 423.)
- 219 **INDIANA.** Annual report of the Department of Geology and Natural Resources; 23d, 25th; 1898, 1900. Indianapolis, 1899-1901. 2 v., il., pl., maps, 9 x 6, cl.
- 11 —Annual report of the Geological Survey of Indiana; 11th-15th; 1881-86. Indianapolis, 1882-86. 5 v., il., pl., maps, 9 x 6, cl.
- Coal deposits of Indiana. G. H. Ashley. 1899. (See Yh-219, Annual report, 1898, p. 1.)
- Geological survey of Parke County, Ind., 1872. B. C. Hobbs. Indianapolis, 1872. pp. 341-384, il., 9 x 6, b. p. Ah-77, p. 365.
- Glacial formations and drainage features of the Erie and Ohio Basins. Frank Leverett. (U. S. Geological Survey. Monographs, v. 41.) 1902. (See Yh-41.)
- Report of a geological examination made on the lands of the Wabash Petroleum & Coal Mining Co., in Warren, Fountain and Parke Counties. Richard Owen. Indianapolis, 1866. 30 pp., 9 x 6, b. p. Mb-54, p. 297.
- Report of a geological examination of Parke County, Ind.; by R. T. Brown. Parke County-Board of Commissioners. Rockville, 1868. 38 pp., 9 x 6, b. p. Af-297, p. 21.
- 205 **JACKSON COUNTY, KY.** Report on the geology of parts of Jackson and Rockcastle Counties; by George M. Sullivan. Kentucky-Geological Survey. Frankfort, 1891. 20 pp., il., map, 10 x 7, pap.
- KANSAS.** Notes on the geology of the survey for the extension of the Union Pacific Ry., E. D., from the Smoky Hill River, Kans., to the Rio Grande. J. L. Leconte. 1868. (See Ab-387.)
- The High Plains and their utilization. W. D. Johnson. (U. S. Geological Survey.) 1901. (See Yh-40, Annual report, 1899-1900, Pt. 4, p. 601.)
- KENTUCKY.** Geological map of Kentucky exhibiting the locations of the counties, cities, villages, post-offices, railway stations, etc., the railways, common roads, etc. E. Mendenhall, pub. 1865. (See Qf-573.)
- Glacial formations and drainage features of the Erie and Ohio Basins. Frank Leverett. (U. S. Geological Survey. Monographs, v. 41.) 1902. (See Yh-41.)
- 205 —Report on the geology of parts of Jackson and Rockcastle Counties; by George M. Sullivan. Kentucky-Geological Survey. Frankfort, 1891. 20 pp., il., map, 10 x 7, pap.
- LONG ISLAND.** Outline of the geology of Long Island in its relations to the public water supplies. W. O. Crosby. 1900. (See Dc-1022, p. 553.)
- MAINE.** Contributions to the geology of Maine. H. S. Williams and H. E. Gregory. (U. S. Geological Survey. Bulletin No. 165.) 1900. (See Yh-87.)
- Glacial gravels of Maine and their associated deposits. G. H. Stone. (U. S. Geological Survey. Monographs, v. 34.) 1899. (See Yh-41.)

Yh—(Continued).

- MARYLAND.** Relations of Maryland topography, climate and geology to highway construction. W. B. Clark. 1899. (See Na-122, p. 47.)
- 218 —Special publication of the Geological Survey; v. 1, Pts. 1-4; v. 4, Pt. 2. Contents: v. 1, Pts. 1-3, Physical features of Maryland; by W. B. Clark. v. 1, Pt. 4, Bibliography and cartography of Maryland; by E. B. Mathews. v. 4, Pt. 2, Second report on the highways of Maryland with especial reference to the operations of the Highway Division during 1900 and 1901; by H. F. Reid and A. N. Johnson. Balt., 1897-1902. 5 v., pl., maps, 11 x 8, 10 x 7, pap.
- MASSACHUSETTS.** Geologic atlas of the United States: Massachusetts folios. U. S.—Geological Survey. 1898. (See Qf-389.21.)
- Geology of eastern Berkshire County, Massachusetts. B. K. Emerson. (U. S. Geological Survey. Bulletin No. 159.) 1899. (See Yh-87.)
- Geology of the Narragansett Basin. N. S. Shaler, J. B. Woodworth and A. F. Foerste. (U. S. Geological Survey. Monographs, v. 39.) 1899. (See Yh-41.)
- MICHIGAN.** Crystal Falls iron-bearing district of Michigan; with a chapter on the Sturgeon River tongue, by W. S. Bayley, and an introduction by C. R. Van Hise. J. M. Clements and H. L. Smyth. (U. S. Geological Survey. Monographs, v. 36.) 1899. (See Yh-41.)
- Geologic atlas of the United States: Michigan folios. U. S.—Geological Survey. 1900. (See Qf-389.22.)
- Geology and topography of the Lower Peninsula of Michigan. A. C. Lane. 1899. (See De-81, No. 30, p. 57.)
- Glacial formations and drainage features of the Erie and Ohio Basins. Frank Leverett. (U. S. Geological Survey. Monographs, v. 41.) 1902. (See Yh-41.)
- Iron-ore deposits of the Lake Superior region. C. R. Van Hise. (U. S. Geological Survey.) 1901. (See Yh-40, Annual report, 1899-1900, Pt. 3, p. 305.)
- MINNESOTA.** Gneisses, gabbro-schists and associated rocks of Southwestern Minnesota. C. W. Hall. (U. S. Geological Survey. Bulletin No. 157.) 1899. (See Yh-87.)
- 221 **MISSOURI.** Annual reports of the Geological Survey; 1st-2d; 1853-54. Jefferson City, 1854. 2 v. in 1, il., pl., maps, tabs., 10 x 7, cl.
- 207 —Biennial report of the State Geologist; 1899-1900. Missouri-Bureau of Geology and Mines. Jefferson City, 1901. 1 v., 9 x 6, pap.
- 32 —Bulletin of the Geological Survey; No. 1. Contents: Coal beds of Lafayette County; by Arthur Winslow. Building stones and clays of iron, St. Francois and Madison Counties; by G. E. Ladd. Mineral waters of Saline County; by A. E. Woodward. Preliminary catalogue of fossils occurring in Missouri; by G. Hambach. Jefferson City, 1890. 1 v., 10 x 7, pap.
- Fossil flora of the lower coal measures of Missouri. David White. (U. S. Geological Survey. Monographs, v. 37.) 1899. (See Yh-41.)
- 208 —New Year announcement of the Bureau of Geology and Mines. Jefferson City, 1900. 27 pp., 10 x 7, pap.
- Parker's geological map of Missouri, showing the location of the principal deposits of iron, lead, zinc, copper, tin, gold, silver, platina, nickel, manganese, alabaster, kaolin, coal, diamonds, oil springs, etc., and a list of unentered lands in each county, with the population, etc. N. H. Parker. 1865. (See Qf-568.)
- 192 —Preliminary report on the iron ores and coal fields from the field work of 1872. Bureau of Geology and Mines. N. Y., 1873. 2 v., il., tab., 10 x 7 (atlas 22 x 27), cl., pap.
- 222 —Reports; v. 2-3; v. 6, sec. 1; v. 12. Missouri-Geological Survey. Contents: v. 2, A report on the iron ores of Missouri from field work prosecuted during the years 1881 and 1882; by F. L. Nason. v. 3, A report on the mineral waters of Missouri; by Paul Schweitzer. v. 6, sec. 1, Lead and zinc deposits; by Arthur Winslow and J. D. Robertson. v. 12, Reports on areal geology. Jefferson City, 1892-98. 4 v., il., pl., maps, tab., 10 x 7, cl.
- MONTANA.** Geologic atlas of the United States: Montana folios. U. S.—Geological Survey. 1899. (See Qf-389.26.)
- Geology of the Little Belt Mountains, Montana, with notes on the mineral deposits of the Neihart, Barker, Yogo and other districts, by W. H. Weed; accompanied by a report on the petrography of the igneous rocks of the district, by L. V. Pirsson. (U. S. Geological Survey.) 1900. (See Yh-40, Annual report, 1898-99, Pt. 3, p. 257.)
- Mineral vein formation at Boulder Hot Springs, Mont. W. H. Weed. (U. S. Geological Survey.) 1901. (See Yh-40, Annual report, 1899-1900, Pt. 2, p. 227.)
- 202 **NEVADA.** Comstock lode; its character, and the probable mode of its continuance in depth. F. B. Richthofen. San Fran., 1868. 83 pp., 9 x 6, pap.
- Esmeralda formation, a fresh-water lake deposit; with a description of the fossil plants, by F. H. Knowlton, and of a fossil fish, by F. A. Lucas. H. W. Turner. (U. S. Geological Survey.) 1901. (See Yh-40, Annual report, 1899-1900, Pt. 2, p. 191.)

Yh—(Continued).

- 28 **NEW JERSEY.** Annual report of the State Geologist; 1896, '98-1901. Trenton, 1897-1902. 5 v., il., pl., maps, tab., 9 x 6, ½ cl.
- 25 —Final report of the State Geologist; v. 4. Physical geography of New Jersey. Trenton, 1898. 1 v., pl., maps, 10 x 6, cl.
- NEW MEXICO.** Notes on the geology of the survey for the extension of the Union Pacific Ry., E. D., from the Smoky Hill River, Kans., to the Rio Grande. J. L. Leconte. 1868. (See Ab-387.)
- 169 —Systematic catalogue of vertebrata of the Eocene of New Mexico, collected in 1874; E. D. Cope, Paleontologist. U. S.-Geographical Surveys West of the One Hundredth Meridian. Wash., 1875. 37 pp., 9 x 6, pap.
- The High Plains and their utilization. W. D. Johnson. (U. S. Geological Survey.) 1901. (See Yh-40, Annual report, 1899-1900, Pt. 4, p. 601.)
- 35 **NEW YORK STATE.** Communication of the Governor relative to the geological survey of the State; 1847. Albany, 1840. 1 v., map, 9 x 6, ¾ ro.
- Glacial formations and drainage features of the Erie and Ohio Basins. Frank Leverett. (U. S. Geological Survey. Monographs, v. 41.) 1902. (See Yh-41.)
- Outline of the geology of Long Island in its relations to the public water supplies. W. O. Crosby. 1900. (See Dc-1022, p. 553.)
- Outline of the geology of Staten Island in relation to the public water supply. W. O. Crosby. 1900. (See Dc-1022, p. 573.)
- Quarry industry in Southeastern New York. E. C. Eckel. 1902. (See Ma-63.)
- Slate belt of Eastern New York and Western Vermont. T. N. Dale. (U. S. Geological Survey.) 1899. (See Yh-40, Annual report, 1897-98, Pt. 3, p. 153.)
- NEW ZEALAND.** Papers and reports of the Mines Department relating to minerals and mining, comprising statement by the Minister of Mines, report on the gold-fields, report on coal-mines, geological explorations. 1901. (See Ma-70.)
- NEZ PERCE COUNTY, IDAHO.** Geology and water resources of Nez Perce County, Idaho. I. C. Russell. (U. S. Geological Survey. Water Supply and Irrigation Papers.) 1901. (See De-41, Nos. 53-54.)
- 197 **NORTH CAROLINA.** Biennial report of the State Geologist; 1st; 1891-92. Raleigh, 1893. 1 v., pl., maps, 10 x 6, pap.
- 196 —Bulletin; Nos. 1, 5-11, 13. North Carolina-Geological Survey. Contents: 1, Iron ores of North Carolina; by Henry B. C. Nitze. 5, Forests, forest lands and forest products of Eastern North Carolina; by W. W. Ashe. 6, Timber trees and forests of North Carolina; by Gifford Pinchot and W. W. Ashe. 7, Forest fires, their destructive work, causes and prevention; by W. W. Ashe. 8, Papers on the water power in North Carolina: A preliminary report; by G. F. Swain, J. A. Holmes, E. W. Myers. 9, Monazite and monazite deposits in North Carolina; by Henry B. C. Nitze. 10, Gold mining in North Carolina and adjacent South Appalachian regions; by H. B. C. Nitze and H. A. J. Wilkens. 11, Corundum and the basic magnesian rocks of Western North Carolina; by J. V. Lewis. 13, Clay deposits and clay industry in North Carolina; by Heinrich Ries. Raleigh, 1898-97. 9 v., il., pl., maps, tab., 10 x 7, pap., cl.
- 195 —Economic papers; Nos. 1-5. North Carolina-Geological Survey. Contents: 1, Possibilities of a maple sugar industry in Western North Carolina; by W. W. Ashe. 2, Some recent road legislation in North Carolina; by J. A. Holmes. 3, Talc and pyrophyllite deposits in North Carolina; by J. H. Pratt. 4, Mining industry in North Carolina during 1900; by J. H. Pratt. 5, Recent road legislation in North Carolina; by the North Carolina Highway Commission. Raleigh, 1897-1901. 5 v., il., 10 x 7, 9 x 6, pap.
- OHIO.** Geological map of Ohio with the adjoining portions of Pennsylvania and Maryland. E. Mendenhall, pub. 1865. (See Qf-600.)
- Glacial formations and drainage features of the Erie and Ohio Basins. Frank Leverett. (U. S. Geological Survey. Monographs, v. 41.) 1902. (See Yh-41.)
- Preliminary report upon petroleum and inflammable gas; by Edward Orton. Ohio-Geological Survey. Columbus, 1887. 20 pp., il., maps, 9 x 6, b. p. Za-38, p. 255.
- 29 —Report of progress, 1869. Ohio-Geological Survey. Note: Text accompanied by unbound maps. Columbus, 1871. 1 v., pl., maps, 9 x 6, cl.
- OREGON.** Coos Bay coal field. J. S. Diller. (U. S. Geological Survey.) 1899. (See Yh-40, Annual report, 1897-98, Pt. 3, p. 309.)
- Geologic atlas of the United States: Oregon folios. U. S.-Geological Survey. 1898. (See Qf-389, 37.)
- PARKE COUNTY, IND.** Geological survey of Parke County, Ind., 1872. B. C. Hobbs. Indianapolis, 1872. pp. 341-384, il., 9 x 6, b. p. Ah-77, p. 865.
- Report of a geological examination of Parke County, Ind.; by R. T. Brown. Parke County-Board of Commissioners. Rockville, 1868. 33 pp., 9 x 6, b. p. Af-297, p. 21.

Yh—(*Continued*).

- PENNSYLVANIA.** Glacial formations and drainage features of the Erie and Ohio Basins. Frank Leverett. (U. S. Geological Survey. Monographs, v. 41.) 1902. (See Yh-41.)
- PERU.** El Departamento de Ancachs y sus riquezas minerales. Antonio Raimondi. 1878. (See Qd-87.)
- PHILIPPINE ISLANDS.** Brief memorandum on the geology of the Philippine Islands. G. F. Becker. (U. S. Geological Survey.) 1900. (See Yh-40, Annual report, 1899-1900, Pt. 2, p. 1.)
- Report on the geology of the Philippine Islands, followed by a version of "Ueber Tertiäre Fossilien von den Philippinen" (1896), by K. Martin. G. F. Becker. (U. S. Geological Survey.) 1901. (See Yh-40, Annual report, 1899-1900, Pt. 3, p. 487.)
- QUEBEC.** Mineral resources of the Province of Quebec, Canada. J. Obalski. 1902. (See Sd6-3.1, v. 24, p. 227.)
- RHODE ISLAND.** Geology of the Narragansett Basin. N. S. Shaler, J. B. Woodworth and A. F. Foerste. (U. S. Geological Survey. Monographs, v. 33.) 1899. (See Yh-41.)
- 205 **ROCKCASTLE COUNTY, KY.** Report on the geology of parts of Jackson and Rockcastle Counties; by George M. Sullivan. Kentucky-Geological Survey. Frankfort, 1891. 20 pp., il., map, 10 x 7, pap.
- SCOTLAND.** Carboniferous limestone coal-fields of West Lothian. H. M. Cadell. 1902. (See Sd6-3.1, v. 24, p. 94.)
- Oilshale-fields of the Lothians. H. M. Cadell. 1902. (See Sd6-3.1, v. 24, p. 36.)
- 220 **SEWARD PENINSULA, ALASKA.** Reconnaissances in the Cape Nome and Norton Bay Regions, Alaska, in 1900; by Alfred H. Brooks, George B. Richardson, Arthur J. Collier and Walter C. Mendenhall. U. S.-Geological Survey. Wash., 1901. 22 pp., pl., maps, 12 x 8, pap.
- 228 **SOUTH DAKOTA.** Bulletin of the Geological Survey; No. 3. Contents: No. 3, Mineral resources of South Dakota including mineral wealth of the Black Hills; by Cleopas C. O'Harra. Mineral building material, fuels, and waters of South Dakota, with production for 1900; by James E. Todd. Vermillion, 1902. 1 v., il., pl., pap.
- Geology and water resources of a portion of Southeastern South Dakota. J. E. Todd. (U. S. Geological Survey. Water Supply and Irrigation Papers.) 1900. (See De-81, No. 34.)
- Laccoliths of the Black Hills; with a chapter on experiments illustrating intrusion and erosion, by Ernest Howe. T. A. Jaggar, Jr. (U. S. Geological Survey.) 1901. (See Yh-40, Annual report, 1899-1900, Pt. 3, p. 163.)
- Moraines of Southeastern South Dakota and their attendant deposits. J. E. Todd. (U. S. Geological Survey. Bulletin No. 158.) 1899. (See Yh-87.)
- Preliminary description of the geology and water resources of the southern half of the Black Hills and adjoining regions in South Dakota and Wyoming. N. H. Darton. (U. S. Geological Survey.) 1901. (See Yh-40, Annual report, 1899-1900, Pt. 4, p. 489.)
- SPAIN.** Reseña de los trabajos realizados por la Comisión del Mapa geológico de España. M. F. de Castro. 1890. (See Ya-27, p. 107.)
- STATEN ISLAND.** Outline of the geology of Staten Island in relation to the public water supply. W. O. Crosby. 1900. (See Dc-1022, p. 573.)
- TENNESSEE.** Geologic atlas of the United States: Tennessee folios. U. S.-Geological Survey. 1899. (See Qf-389.42.)
- Tennessee white phosphate. C. W. Hayes. (U. S. Geological Survey.) 1901. (See Yh-40, Annual report, 1899-1900, Pt. 3, p. 473.)
- 42 **TEXAS.** Annual report of the Geological Survey; 1892; No. 4. Austin, 1893. 1 v., il., pl., maps, 10 x 7, pap.
- 194 —Bulletin of the University of Texas; Nos. 5, 9, 15-16. Contents: No. 5, Texas petroleum; by W. B. Phillips. No. 9, Report of progress for 1901; Sulphur, oil and quicksilver in Trans-Pecos, Tex. No. 15, Coal, lignite and asphalt rocks in Texas. No. 16, Terlingua quicksilver deposits, Brewster County. Austin, 1900-02. 4 v., il., pl., maps, tab., 9 x 6, pap.
- El Paso tin deposits. W. H. Weed. (U. S. Geological Survey. Bulletin No. 178.) 1901. (See Yh-87.)
- Geography and geology of the Black and Grand Prairies, Tex., with detailed descriptions of the cretaceous formations and special reference to artesian wells. R. T. Hill. (U. S. Geological Survey.) 1901. (See Yh-40, Annual report, 1899-1900, Pt. 7.)
- Geologic atlas of the United States: Texas folios. U. S.-Geological Survey. 1900. (See Qf-389.43.)
- Oil and gas fields of the western interior, and Northern Texas coal measures and of the Upper Cretaceous and Tertiary of the Western Gulf Coast. G. I. Adams. (U. S. Geological Survey. Bulletin No. 184.) 1901. (See Yh-87.)

Yh—(Continued).

- 200 — Petroleum from the Beaumont, Texas, field. Clifford Richardson and E. C. Wallace. Lond., 1901. 15 pp., tab., 7 x 5, pap.
- Reconnaissance in the Rio Grande coal fields of Texas; including a report on igneous rocks from the San Carlos coal field, by C. E. Lord. T. W. Vaughan. (U. S. Geological Survey. Bulletin No. 164.) 1900. (See Yh-87.)
- Record of the geology of Texas for the decade ending Dec. 31st, 1896. F. W. Simonds. 1900. (See Sa3-100.1, v. 3, p. 17.)
- The High Plains and their utilization. W. D. Johnson. (U. S. Geological Survey.) 1901. (See Yh-40, Annual report, 1899-1900, Pt. 4, p. 601.)
- 201 **TRINIDAD ISLAND.** Extract from the report of the Inspector of Asphalt and Cements: Tests of lake and land asphalts. District of Columbia-Engineer Department. no place, 1892. 67 pp., tab., 9 x 6, pap.
- 40 **UNITED STATES.** Annual report of the Geological Survey; 19th-21st; 1897-1900. Wash., 1898-1901. 26 v., il., pl., maps, tab., 12 x 8, cl.
- 87 — Bulletin of the Geological Survey; Nos. 157-190, 192-194. Wash., 1899-1902. 37 v., il., pl., maps, 10 x 6, pap.
- 157, Gneisses, gabbro-schists, and associated rocks of Southwestern Minnesota; by C. W. Hall.
- 158, Moraines of Southeastern South Dakota and their attendant deposits; by J. E. Todd.
- 159, Geology of Eastern Berkshire Co., Mass.; by B. K. Emerson.
- 160, Dictionary of altitudes in the United States; comp. by Henry Gannett. ed. 3.
- 161, Earthquakes in California in 1898; by C. D. Perrine.
- 162, Bibliography and index of North American geology, paleontology, petrology and mineralogy for the year 1898; by F. B. Weeks.
- 163, Flora of the Montana formation; by F. H. Knowlton.
- 164, Reconnaissance in the Rio Grande coal fields of Texas; by T. W. Vaughan.
- 165, Contributions to the geology of Maine; by H. S. Williams and H. E. Gregory.
- 166, Gazetteer of Utah; by Henry Gannett.
- 167, Contributions to chemistry and mineralogy from the laboratory of the United States Geological Survey; by F. W. Clarke.
- 168, Analyses of rocks from the laboratory of the United States Geological Survey, 1880-98; by F. W. Clarke.
- 169, Altitudes in Alaska; comp. by Henry Gannett.
- 170, Survey of the boundary line between Idaho and Montana from the international boundary to the crest of the Bitterroot Mountains; by R. U. Goode.
- 171, Boundaries of the United States and of the several states and territories; by Henry Gannett. ed. 2.
- 172, Bibliography and index of North American geology, paleontology, petrology and mineralogy for 1899; by F. B. Weeks.
- 173, Synopsis of American fossil bryozoa; by J. M. Nickles and R. S. Bassler.
- 174, Survey of the northwestern boundary of the United States, 1857-1881; by Marcus Baker.
- 175, Triangulation and spirit leveling in Indian Territory; by C. H. Fitch.
- 176, Some principles and methods of rock analysis; by W. F. Hillebrand.
- 177, Catalogue and index of the publications of the United States Geological Survey; 1880-1901; by P. C. Warman.
- 178, The El Paso tin deposits; by W. H. Weed.
- 179, Bibliography and catalogue of the fossil vertebrata of North America; by O. P. Hay.
- 180, The occurrence and distribution of corundum in the United States; by J. H. Pratt.
- 181, Results of primary triangulation and primary traverse, fiscal year 1900-01; by H. M. Wilson and others.
- 182, Report on the economic geology of the Silverton Quadrangle, Colo.; by F. L. Ransome.
- 183, Gazetteer of Porto Rico; by Henry Gannett.
- 184, Oil and gas fields of the western interior and Northern Texas coal measures, and of the Upper Cretaceous and Tertiary of the Western Gulf Coast; by G. I. Adams.
- 185, Results of spirit leveling, fiscal year 1900-01; by H. M. Wilson and others.
- 186, On pyrite and marcasite; by H. N. Stokes.
- 187, Geographic dictionary of Alaska; by Marcus Baker.
- 188, Bibliography of North American geology, paleontology, petrology and mineralogy for the years 1892-1900 inclusive; by F. B. Weeks.
- 189, Index to North American geology, paleontology, petrology and mineralogy for the years 1892-1900 inclusive; by F. B. Weeks.
- 190, Gazetteer of Texas; by Henry Gannett.
- 192, Gazetteer of Cuba; by Henry Gannett.
- 193, Geological relations and distribution of platinum and associated metals; by J. F. Kemp.
- 194, Northwest boundary of Texas; by Marcus Baker.
- Geologic atlas of the United States; Folios 49-71. Geological Survey. 1898-1901. (See Qf-399.)

Yh—(Continued).

- 198 —Geologist's traveling hand-book: An American geological railway guide, giving the geological formation at every railway station, with notes of interesting places on the routes and a description of each of the formations. James Macfarlane. N. Y., 1879. 216 pp., il., tab., 9 x 6, cl.
- 41 —Monographs of the Geological Survey; v. 32-41. Wash., 1899-1902. 10 v., il., pl., maps, 12 x 9, cl.
- v.32, Geology of the Yellowstone National Park, Pt. 2. (Pt. 1. wanting.)
- v.33, Geology of the Narragansett Basin; by N. S. Shaler, J. B. Woodworth and A. F. Foerste.
- v.34, Glacial gravels of Maine and their associated deposits; by G. H. Stone.
- v.35, Later extinct floras of North America; by J. S. Newberry.
- v.36, Crystal Falls iron-bearing district of Michigan; by J. M. Clements and H. L. Smyth.
- v.37, Fossil flora of the lower coal measures of Missouri; by David White.
- v.38, Illinois glacial lobe; by Frank Leverett.
- v.39, Eocene and lower Oligocene coral faunas of the United States; by T. W. Vaughan.
- v.40, Adepagous and clavicorn coleoptera from the Tertiary deposits at Florissant, Colo.; by S. H. Scudder.
- v.41, Glacial formations and drainage features of the Erie and Ohio basins; by Frank Leverett.
- 168 —Preliminary report upon invertebrate fossils collected by the expeditions of 1871, 1872 and 1873, with descriptions of new species; by C. A. White. Geographical Surveys West of the One Hundredth Meridian. Wash., 1874. 27 pp., 9 x 6, pap.
- UTAH. Geologic atlas of the United States: Utah folios. U. S.—Geological Survey. 1900. (See Qf-389.41.)
- Geology and mining industry of the Tintic District. Utah. G. W. Tower, Jr., and G. O. Smith. (U. S. Geological Survey.) 1899. (See Yh-40, Annual report, 1897-98, Pt. 3, p. 601.)
- VENEZUELA. Die Cordillere von Mérida nebst Bemerkungen über das Karibische Gebirge. W. Sievers. 1888. (See Qb-17, v. 3, Pt. 1.)
- VERMONT. Slate belt of Eastern New York and Western Vermont. T. N. Dale. (U. S. Geological Survey.) 1899. (See Yh-40, Annual report, 1897-98, Pt. 3, p. 153.)
- 213 VICTORIA. Monthly progress report of the Geological Survey; Apr., 1899-Mar., 1900. Department of Mines. Melbourne, 1899-1900. 1 v., maps, 10 x 7, unbound.
- VIRGINIA. Geologic atlas of the United States: Virginia folios. U. S.—Geological Survey. 1899. (See Qf-389.46.)
- Geology of the Richmond Basin, Virginia. N. S. Shaler and J. B. Woodworth. (U. S. Geological Survey.) 1899. (See Yh-40, Annual report, 1897-98, Pt. 2, p. 385.)
- WALES. Geological map of England and Wales. A. C. Ramsay. no date. (See Qf-544.)
- WASHINGTON. Geologic atlas of the United States: Washington folios. U. S.—Geological Survey. 1899. (See Qf-389.47.)
- Geology and water resources of a portion of Yakima County, Wash. G. O. Smith. (U. S. Geological Survey. Water Supply and Irrigation Papers.) 1901. (See De-81, No. 55.)
- Preliminary paper on the geology of the Cascade Mountains in northern Washington. I. C. Russell. (U. S. Geological Survey.) 1900. (See Yh-40, Annual report, 1898-99, Pt. 2, p. 83.)
- 212 WEST VIRGINIA. Bulletin; No 1. West Virginia-Geological Survey. Contents: Bibliography of works upon the geology and natural resources of West Virginia from 1764 to 1901, and also a cartography of West Virginia from 1737 to 1901; by Samuel B. Brown. Morgantown, 1901. 1 v., 9 x 6, pap.
- Geologic atlas of the United States: West Virginia folios. U. S.—Geological Survey. 1900. (See Qf-389.48.)
- Glacial formations and drainage features of the Erie and Ohio Basins. Frank Leverett. (U. S. Geological Survey. Monographs, v. 41.) 1902. (See Yh-41.)
- Map of West Virginia compiled by Russell L. Morris, from county atlases, government and other surveys, showing the coal, oil and gas developments, prominent anticlinal axes and the outcrops of the different coal series; by I. C. White. West Virginia-Geological Survey. 1901. (See Qf-518.)
- WYOMING. Geologic atlas of the United States: Wyoming folios. U. S.—Geological Survey. 1899. (See Qf-389.50.)
- Glacial sculpture of the Bighorn Mountain, Wyoming. F. E. Matthes. (U. S. Geological Survey.) 1901. (See Yh-40, Annual report, 1899-1900, Pt. 2, p. 167.)
- Laccoliths of the Black Hills; with a chapter on experiments illustrating intrusion and erosion, by Ernest Howe. T. A. Jaggar, Jr. (U. S. Geological Survey.) 1901. (See Yh-40, Annual report, 1899-1900, Pt. 3, p. 163.)
- Preliminary description of the geology and water resources of the southern half of the Black Hills and adjoining regions in South Dakota and Wyoming. N. H. Darton. (U. S. Geological Survey.) 1901. (See Yh-40, Annual report, 1899-1900, Pt. 4, p. 489.)

Yh—(Continued).

—Preliminary report on the artesian basins of Wyoming. W. C. Knight. 1900. (See De-150, Bulletin No. 45.)

YAKIMA COUNTY, WASH. Geology and water resources of a portion of Yakima Co., Wash. G. O. Smith. (U. S. Geological Survey. Water Supply and Irrigation Papers.) 1901. (See De-81, No. 55.)

YELLOWSTONE NATIONAL PARK. Geology of Yellowstone National Park; Pt. 2, Descriptive geology, petrography and paleontology. Arnold Hague and others. (U. S. Geological Survey. Monographs, v. 32, Pt. 2.) 1899. (See Yh-41.)

GENERAL SCIENCE—MATHEMATICS.

Yh9

ARITHMETIC.

- 100 **BUCHANAN, E. E.** Buchanan's tables of squares containing the square of every foot, inch, and sixteenth of an inch between one-sixteenth of an inch and fifty feet; for engineers and calculators. ed. 9. N. Y., 1901. 102 pp., 7 x 4, cl.

CALCULUS.

- 107 **MOIGNO.** Leçons de calcul différentiel et de calcul intégral, rédigées d'après les méthodes et les ouvrages publiés ou inédits de A. L. Cauchy. Contents: v. 1, Calcul différentiel. v. 2, Calcul intégral. Paris, 1840-44. 2 v., 9 x 5, cl.

GENERAL.

- 101 **DARIES, GEORGES.** Mathématiques. (Bibliothèque du Conducteur de Travaux Publics.) Paris, 1896. 8 + 350 pp., 8 x 5, ro.
- 106 **DEDEKIND, RICHARD.** Essays on the theory of numbers; authorized translation by W. W. Beman. Contents: I, Continuity and irrational numbers. II, The nature and meaning of numbers. Chic., 1901. 115 pp., 8 x 5, cl.
- 104 **DE MORGAN, AUGUSTUS.** On the study and difficulties of mathematics. 2d reprint ed. Chic., 1902. 6 + 288 pp., por., 8 x 5, cl.
- 99 **HALSEY, F. A.** Use of the slide rule. (Van Nostrand's Science Ser.) N. Y., 1899. 84 pp., il., 6 x 4, bds.
- HEATHER, J. F.** Treatise on mathematical instruments; including most of the instruments employed in drawing, for assisting the vision, in surveying and levelling, in practical astronomy, and for measuring the angles of crystals; in which their construction and the methods of testing, adjusting and using them are concisely explained. 1853. (See R-76a.)
- 87 **MANGOLDT, H. v.** Bilder aus der Entwicklung der reinen und angewandten Mathematik während des neunzehnten Jahrhunderts, mit besonderer Berücksichtigung des Einflusses von Carl Friedrich Gauss; Festrede bei der auf allerhöchsten Wunsch aus Anlass der Jahrhundertwende veranstalteten akademischen Feier der Königlich-Technischen Hochschule zu Aachen. Aachen, 1900. 22 pp., 9 x 6, pap.
- 102 **MARSHALL, T. W.** Logarithmic tables of the measures of length extending from 0 to 50 feet at intervals of one-sixteenth of an inch. N. Y., 1902. 106 pp., 6 x 3, ro.
- 98 **MERRIMAN, MANSFIELD, and R. S. WOODWARD, ed.** Higher mathematics: A text-book for classical and engineering colleges. ed. 3, rev. N. Y., 1900. 11 + 576 pp., il., tab., 9 x 6, cl.
- 88 **SCOFIELD, E. M.** The slide rule. Chic., 1902. 24 pp., il., 9 x 6, pap.

GEOMETRY.

- 103 **BAILLAIRGE, C. P. F.** Geometry, mensuration and the stereometrical tableau: Lecture read before the Quebec Literary and Historical Society, 20th Mar., 1872. Quebec, 1873. 44 pp., 9 x 6, b. p.
- 103 —Key to Baillairegé's stereometrical tableau: New method of measuring all bodies, segments, frusta and ungulae of such bodies by one and the same rule. Quebec, 1874. 16 + 1 pp., 9 x 6, b. p.
- 103 —Same. Quebec, 1876. 44 pp., 9 x 6, b. p.
- 103 —Same. no place, no date. 178 pp., il., 9 x 6, b. p.
- 106 **BOUCHARLAT, J.-L.** Théorie des courbes et des surfaces du second ordre, ou traité complet d'application de l'algèbre à la géométrie. ed. 3, rev. and enl. Paris, 1845. 22 + 524 pp., 14 pl., 9 x 5, cl.
- 105 **HILBERT, DAVID.** Foundations of geometry; authorized translation by E. J. Townsend. Chic., 1902. 7 + 142 pp., 8 x 5, cl.

GENERAL SCIENCE—METALLURGY.

Yi

ALUMINUM.

HEROUT. L'aluminium à bon marché. (Congrès International des Mines et de la Métallurgie, Paris, 1900.) Saint-Etienne, 1900. 14 pp., 9 x 6, pap. *Ma-77.6.*

YI—(Continued).

COPPER.

MINERAL INDUSTRY: Its statistics, technology and trade in the United States and other countries; 1893-1901. (See Ma-12.)

SCHNABEL, CARL. Metallurgy of copper. 1898. (See YI-100, v. 1, p. 1.)

SOCIÉTÉ D'ENCOURAGEMENT POUR L'INDUSTRIE NATIONALE. Contribution à l'étude des alliages par H.-W. Bakhuis Roozeboom, Ad. Carnot, G. Charpy, H. Le Chatelier, H. Gautier, Ed. Goutal, Guillaume, F. Osmond, Roberts Austen, Mme. Skłodowska Curie, sous la direction et le contrôle de la Commission des Alliages, 1896-1900. 1901. (See Sd4-6.3.)

VATTIER, CHARLES. Notes on mining and metallurgy in Chile. 1901. (See Ma-62.)

GENERAL.

ANDERSON, J. W. Prospector's handbook: A guide for the prospector and traveller in search of metal-bearing or other valuable minerals. 1902. (See Ma-76.)

AUCAMUS, EUGENE. Métaux. (Bibliothèque du Conducteur de Travaux Publics.) 1896. (See Jc-294, p. 97.)

AUGHTIE, HERBERT. Construction of foundry patterns: An elementary manual for engineering students and apprentices. 1901. (See Ga-156.)

BLOUNT, BERTRAM. Practical electro-chemistry. 1901. (See Hf-15.)

CHESTER, E. D. Imperfect pulverization of rocks by means of stamping and suggestions for its improvement. 1902. (See Sd6-3.1, v. 24, p. 175.)

CONGRÈS INTERNATIONAL DES MINES ET DE LA MÉTALLURGIE, Paris, 1900. Papers, etc. 1900. (See Ma-77.)

CONSOLIDATED LAKE SUPERIOR CO. Annual report for the year ending June 30th, 1902. (See Ag-545.)

HEWITT, A. S. Century of mining and metallurgy in the United States: Centennial address. Phil., 1876. 32 pp., tab., 9 x 6, b. p. Za-39, p. 331.

6 **HIORNS, A. H.** Practical metallurgy and assaying: A text-book for the use of teachers, students and assayers. Lond., 1902. 16 + 490 pp., 7 x 5, cl.

HUBERT, H. Utilisation directe des gaz de hauts-fourneaux pour la production de la force motrice. (Congrès International des Mines et de la Métallurgie, Paris, 1900.) Saint-Etienne, 1900. 57 pp., 9 x 6, pap. Ma-77.8.

LEGER, ALFRED. Les travaux publics, les mines et la métallurgie aux temps des Romains; la tradition romaine jusqu'à nos jours. 1875. (See Ca-84.)

MINERAL INDUSTRY: Its statistics, technology and trade in the United States and other countries; 1893-1901. (See Ma-12.)

NORTH OF ENGLAND INSTITUTE OF MINING AND MECHANICAL ENGINEERS. Subject-matter index of mining, mechanical and metallurgical literature; 1900. (See Sd6-8.7.)

OVERMAN, FREDERICK. Practical mineralogy, assaying and mining; with a description of the useful minerals, and instructions for assaying and mining according to the simplest methods. 1853. (See Yh-190.)

PELLATI, N. La préparation mécanique des minerais métalliques en Sardaigne. (Congrès International des Mines et de la Métallurgie, Paris, 1900.) Saint-Etienne, 1900. 13 pp., 9 x 6, pap. Ma-77.5.

100 **SCHNABEL, CARL.** Handbook of metallurgy; tr. by Henry Louis. Contents: v. 1, Copper, lead, silver, gold. v. 2, Zinc, cadmium, mercury, bismuth, tin, antimony, arsenic, nickel, cobalt, platinum, aluminium. Lond., 1898. 2 v., il., tab., 9 x 6, cl.

SMITS, H. Exposé du procédé Wetherill. (Congrès International des Mines et de la Métallurgie, Paris, 1900.) Saint-Etienne, 1900. 21 pp., pl., 9 x 6, pap. Ma-77.11.

SOCIÉTÉ D'ENCOURAGEMENT POUR L'INDUSTRIE NATIONALE. Contribution à l'étude des alliages par H.-W. Bakhuis Roozeboom, Ad. Carnot, G. Charpy, H. Le Chatelier, H. Gautier, Ed. Goutal, Guillaume, E. Osmond, Roberts Austen, Mme. Skłodowska Curie, sous la direction et le contrôle de la Commission des Alliages, 1896-1900. 1901. (See Sd4-6.3.)

GOLD AND SILVER.

MINERAL INDUSTRY: Its statistics, technology, and trade in the United States and other countries; 1893-1901. (See Ma-12.)

SCHNABEL, CARL. Silver and gold. 1898. (See YI-100, v. 1, p. 456.)

IRON AND STEEL.

AMERICAN IRON AND STEEL ASSOCIATION. Annual statistical report; 1897-1901. (See Sa3-84.1.)

—Directory to the iron and steel works of the United States, to which is added a complete list of the iron and steel works of Canada; corrected to Dec. 31st, 1901. (See Sa3-84.13g.)

AUCAMUS, EUGENE. Métaux. (Bibliothèque du Conducteur de Travaux Publics.) 1896. (See Jc-294, p. 97.)

Yi—(Continued).

IRON AND STEEL—(Continued).

- BABU, L. La fabrication et le travail des aciers spéciaux. (Congrès International des Mines et de la Métallurgie, Paris, 1900.) Saint-Etienne, 1900. 106 pp., pl., 9 x 6, pap. Ma-77.15.
- 105 BECK, LUDWIG. Die Geschichte des Eisens in technischer and kulturgeschichtlicher Beziehung; v. 1-4; v. 5, Pts. 1-7. Braunschweig, 1891-1902. 5 v. in 11, il., 9 x 7, cl., pap.
- BRITISH IRON TRADE ASSOCIATION. American industrial conditions and competition: Reports of the Commissioners appointed by the Association to enquire into the iron, steel and allied industries of the United States; ed. by J. Stephen Jeans. 1902. (See Sd6-23.2.)
- COLE, W. H. Permanent-way materials. 1890. (See Ac-122, p. 1.)
- DEBAUVE, A. Matériaux de construction; pierres, chaux et mortiers, maçonneries, bois, métaux. 1894. (See V-129, v. 3.)
- 95 ECKEL, E. C. Utilization of iron and steel slags. Wash., 1902. 17 pp., 9 x 6, pap.
- 99 FAIRBAIRN, WILLIAM. Iron: Its history, properties, & processes of manufacture. Edin., 1865. 16 + 298 pp., il., tab., 9 x 6, cl.
- 108 GAIGES, L. Élaboration des métaux dérivés du fer. Contents: v. 1, Foyers métallurgiques. v. 2, Réactions métallurgiques. Paris, 1901 (?) 2 v., il., 8 x 5, pap.
- GREAT BRITAIN—PATENT OFFICE. Abridgments of specifications relating to plating or coating metals with metals. Contents: v. 1, 1837-1860. v. 2, 1861-1865. (See Yk-23.)
- Abridgments of specifications relating to the manufacture of iron and steel. Contents: v. 1, 1821-1857. v. 3, 1877-1883. (See Yk-4.)
- HOLLEY, A. L. Albany and Rensselaer Iron and Steel Works, Troy, N. Y. Lond., 1881. 9 pp., il., pl., 10 x 8, b. p. Af-302, p. 155.
- HOWE, H. M. Report on iron and steel metallurgy at the Paris Exposition, 1900. 1901. (See Ma-12, v. 9, p. 400.)
- HUNT, T. S. Notes on iron and iron ores. Montreal, 1870. pp. 245-304, 9 x 6, b. p. Mb-54, p. 463.
- INTERNATIONAL ENGINEERING CONGRESS, GLASGOW, 1901. Report of the proceedings and abstracts of the papers read; with a preface by Robert Caird, Chairman of the Executive Committee. 1902. (See Aa-109.)
- IRON AND STEEL INSTITUTE. Journal; 1900-02. (See Sd6-6.1.)
- 52 JOYNSON, F. H. Metals used in construction: Iron, steel, Bessemer metal, etc. Edin., 1868. 124 pp., il., tab., 7 x 4, cl.
- KEEP, W. J. Cast iron: A record of original research. 1902. (See Jc-230.)
- 29 KIRCHHOFF, C. Notes on some European iron-making districts: A collection of letters to the *Iron Age*. N. Y., 1900. 113 pp., il., pl., tab., 9 x 6, bds.
- MINERAL INDUSTRY: Its statistics, technology and trade in the United States and other countries; 1893-1901. (See Ma-12.)
- ROCOUR, G. État actuel de la fabrication du métal Thomas et ses conséquences sur le puddlage. (Congrès International des Mines et de la Métallurgie, Paris, 1900.) Saint-Etienne, 1900. 17 pp., 9 x 6, pap. Ma-77.9.
- 104 SCHROEDTER, E. Ironmaking and shipbuilding industries in Germany. Berlin, 1902. 58 pp., il., 4 tab., 11 x 8, pap.
- 107 SEXTON, A. H. Outline of the metallurgy of iron and steel. Manchester, 1902. 16 + 620 + 13 pp., il., 9 x 6, pap.
- 96 SHARP, HENRY. On the treatment of steel plates. no place, 1868. 8 pp., il., 11 x 9, pap.
- 106 SMITH, A. W. Materials of machines. N. Y., 1902. 142 pp., il., 5 x 5, cl.
- SOCIETE D'ENCOURAGEMENT POUR L'INDUSTRIE NATIONALE. Contribution à l'étude des alliages par H. W. Bakhuys Roozeboom, Ad. Carnot, G. Charpy, H. Le Chatelier, H. Gautier, Ed. Goutal, Guillaume, F. Osmond, Roberts Austen, Mme. Sklodowska Curie, sous la direction et le contrôle de la Commission des Alliages, 1896-1900. 1901. (See Sd4-6.3.)
- 91 SWANK, J. M. Iron and steel at the close of the nineteenth century. Wash., 1901. 40 pp., 9 x 6, pap.
- TISSOT, A. L'état actuel de la fabrication des moulages d'acier. (Congrès International des Mines et de la Métallurgie, Paris, 1900.) Saint-Etienne, 1900. 24 pp., 9 x 6, pap. Ma-77.4.
- 101 TURNER, THOMAS. Metallurgy of iron; being one of a series of treatises on metallurgy written by Associates of the Royal School of Mines; ed. by Sir W. Roberts-Austen. Lond., 1900. 14 + 367 pp., il., 9 x 6, cl.
- UNITED STATES—SPECIAL COMMISSIONER OF REVENUE. Commissioner Wells's letter to the proprietors of the Lehigh Crane Iron Co., Allentown Iron Co., J. B. Moorehead & Co., and thirteen others, relative to the cost of manufacturing pig-iron. Wash., 1870. 15 pp., 9 x 6, b. p. ZJ-196, p. 113.

Yi—(Continued).

IRON AND STEEL—(Continued).

—Statement relative to the cost of American pig-iron. Wash., 1870. 14 pp., 9 x 6, b. p. Zj-196, p. 77.

VEREIN DEUTSCHER EISENHÜTTENLEUTE. Gemeinfassliche Darstellung des Eisenhüttenwesens. 1901. (See Sd5-18.1.)

WEDDING, A. H. La séparation magnétique des minerais de fer. (Congrès International des Mines et de la Métallurgie, Paris, 1900.) Saint-Étienne, 1900. 47 pp., il., 9 x 6, pap. Ma-77.8.

- 103 WEST, T. D. Metallurgy of cast iron: A complete exposition of the processes involved in its treatment, chemically and physically, from the blast furnace through the foundry to the testing machine; a practical compilation of original research. ed. 6 Chic., 1902. 20 + 627 pp., 7 x 5, cl.

LEAD.

MINERAL INDUSTRY: Its statistics, technology, and trade in the United States and other countries; 1893-1901. (See Ma-12.)

SCHNABEL, CARL. Metallurgy of lead. 1898. (See Yi-100, v. 1, p. 275.)

NICKEL.

SCHNABEL, CARL. Metallurgy of nickel. 1898. (See Yi-100, v. 2, p. 496.)

TIN.

MINERAL INDUSTRY: Its statistics, technology, and trade in the United States and other countries; 1893-1901. (See Ma-12.)

SCHNABEL, CARL. Metallurgy of tin. 1898. (See Yi-100, v. 2, p. 374.)

ZINC.

MINERAL INDUSTRY: Its statistics, technology, and trade in the United States and other countries; 1893-1901. (See Ma-12.)

SCHNABEL, CARL. Metallurgy of zinc. 1898. (See Yi-100, v. 2, p. 1.)

SOCIÉTÉ D'ENCOURAGEMENT POUR L'INDUSTRIE NATIONALE. Contribution à l'étude des alliages par H.-W. Bakhuys Roozeboom, Ad. Carnot, G. Charpy, H. Le Chatelier, H. Gautier, Ed. Goutal, Guillaume, F. Osmond, Roberts Austen, Mme. Skłodowska Curie, sous la direction et le contrôle de la Commission des Alliages, 1896-1900. 1901. (See Sd4-6.3.)

GENERAL SCIENCE—METEOROLOGY.

Yj

BADEN—CENTRALBUREAU FÜR METEOROLOGIE UND HYDROGRAPHIE.

Der Rheinstrom und seine wichtigsten Nebenflüsse von den Quellen bis zum Austritt des Stromes aus dem deutschen Reich: Eine hydrographische, wasserwirtschaftliche und wasserrechtliche Darstellung mit vorzugsweise eingehender Behandlung des deutschen Stromgebietes; im Auftrag der Reichskommission zur Untersuchung der Rheinstromverhältnisse herausgegeben. 1899. (See Cb-517.)

BARTHOLOMEW, J. G., and A. J. HERBERTSON. Atlas of meteorology; a series of over four hundred maps, ed. by Alexr. Buchan. 1899. (See Qf-543.)

BRÜCKNER, EDUARD. Klimaschwankungen seit 1700 nebst Bemerkungen über die Klimaschwankungen der Diluvialzeit. 1890. (See Qb-17, v. 4, Pt. 2.)

CARPENTER, L. G. Forests and snow. 1891. (See Yb-30, No. 55.)

COLORADO—AGRICULTURAL EXPERIMENT STATION. Meteorological observations; 1900. (See Yb-27.)

FORSTER, A. E. Die Temperatur fließender Gewässer Mitteleuropas. 1894. (See Qb-17, v. 5, p. 331.)

FRANKLIN INSTITUTE. Pennsylvania State Weather Service: Monthly weather review; Apr.-Oct., 1893. (See Sa3-11.11.)

GERMANY—AUSSCHUSS ZUR UNTERSUCHUNG DER WASSERVERHÄLTNISSE in den der Ueberschwemmungsgefahr besonders ausgesetzten Flussgebieten. Der Oderstrom, sein Stromgebiet und seine wichtigsten Nebenflüsse: Eine hydrographische, wasserwirtschaftliche und wasserrechtliche Darstellung; auf Grund des Allerhöchsten Erlasses vom 23 Februar 1892 herausgegeben. 1896. (See Cb-518.)

GERMANY—KÖNIGLICHE ELBSTROMBAUVERWALTUNG ZU MAGDEBURG. Der Elbstrom, sein Stromgebiet und seine wichtigsten Nebenflüsse: Eine hydrographische, wasserwirtschaftliche und wasserrechtliche Darstellung; im Auftrage der deutschen Elbuferstaaten und unter Bethheiligung des Preussischen Wasser-Ausschusses herausgegeben. 1896. (See Cb-518.)

GERMANY—PREUSSISCHER WASSER-AUSSCHUSS. Klimatische Verhältnisse. Note: Refers to the Weser and Ems Basins. 1901. (See Cb-732, v. 1, p. 21.)

HANN, JULIUS. Die Vertheilung des Luftdruckes über Mittel- und Süd-Europa. 1887. (See Qb-17, v. 2, Pt. 2.)

Yj—(Continued).

- 68 —Lehrbuch der Meteorologie. Leipzig, 1901. 14 + 805 pp., il., pl., map, 10 x 7 1/4 mor.
- LECHALAS, M. C. *Météorologie et hydrolologie*. 1884. (See Cb-514, p. 9.)
- 96 MARYLAND—WEATHER SERVICE. Report; v. 1. Contents: Pt. 1, Introduction; establishment and plan of operation of the service; by W. B. Clark. Pt. 2, A general report on the physiography of Maryland; by Cleveland Abbe, Jr. Pt. 3, Report on the meteorology of Maryland; by Cleveland Abbe, Jr., O. L. Fassig and F. J. Walz. Balt., 1899. 1 v., il., pl., maps, 10 x 7, cl.
- MASSACHUSETTS AGRICULTURAL COLLEGE—HATCH EXPERIMENT Station. Report of the Meteorologist; 1899. (See Yb-48.)
- 7 NEW YORK CITY—METEOROLOGICAL OBSERVATORY. Report: Abstract of registers from self-recording instruments; 1900-01. (Department of Public Parks.) N. Y., 1900-01. 2 v., il., pl., maps, 11 x 9, cl.
- 62 NEW YORK STATE—WEATHER BUREAU. Report (monthly); 1899-1901 (v. 11-13). Note: Now published under title, Report of the New York Section of the Climate and Crop Service of the U. S. Weather Bureau. Ithaca, 1899-1901. 3 v., il., tab., 12 x 10, unbound.
- PROVIDENCE, R. I.—CITY ENGINEER. Annual report; 1900-01. (See Op55-2.1.)
- ROYAL METEOROLOGICAL SOCIETY. Annual exhibition of instruments, held Mar. 3d to 19th, 1891: Catalogue of rain gauges, evaporation gauges, &c. 1891. (See Sd6-35.1)
- ST. JOHN, N. B.—SEWERAGE AND WATER SUPPLY COMMISSION. Meteorological observations from 1900. 1901. (See Dc-427.)
- SWITZERLAND—HYDROMETRISCHE ABTEILUNG DES EIDGENÖSSISCHEN Oberbauinspektorates. Graphische Darstellungen der schweizerischen hydrometrischen Beobachtungen und der Luft-Temperaturen und Niederschlags-Höhen; 1900. (See Cb-781.)
- UNITED STATES—NAVAL OBSERVATORY. Astronomical papers and meteorological observations; 1891-92. (See Yc-3.)
- 98 —Meteorological observations and results; 1891. Wash., 1902. 1 v., 12 x 10, pap.
- 94 UNITED STATES—SIGNAL OFFICE. Annual report of the Chief Signal-Officer to the Secretary of War; 1872-73, 75-92. Note: For report 1886, see La-32, Annual report, 1886, p. 702. For report 1888, see La-32, Annual report, 1888, Pt. 1, p. 779. For report 1899, see La-32, Annual report, 1899, Pt. 1, p. 185. For report, 1870, see La-32, Annual report, 1870, Pt. 1, p. 101. For report 1871, see La-32, Annual report, 1871, Pt. 1, p. 257. Wash., 1872-93. 24 v., il., pl., maps, tab., 9 x 6, cl., sh.
- 85 UNITED STATES—WEATHER BUREAU. Climate of San Francisco, Cal.; by Alexander G. McAdie and George H. Wilson. (Bulletin No. 28.) Wash., 1899. 82 pp., il., tab., 9 x 6, pap.
- 92 —Eclipse meteorology and allied problems; by Frank H. Bigelow. (Bulletin No. 1.) Wash., 1902. 166 pp., il., tab., 12 x 9, pap.
- 84 —Hurricanes; especially those of Porto Rico and St. Kitts; by William H. Alexander. (Bulletin No. 32.) Wash., 1902. 79 pp., il., maps, 9 x 6, pap.
- Loss of life in the United States by lightning; by Alfred J. Henry. (Bulletin No. 30.) 1901. (See Ha-55.)
- 59 —Proceedings of the convention of Weather Bureau officials; 1901; v. 2. (Bulletin No. 31.) Wash., 1902. 1 v., pl., 9 x 6, pap.
- Report (monthly) of the New York Section of the Climate and Crop Service. See New York State-Weather Bureau. Report (monthly).
- 68 —Report of the Chief for the year ending June, 1893-94, '99, Pt. 2, 1900-01. Wash., 1894-1901. 5 v., il., pl., maps, 12 x 9, cl.
- Wind velocity and fluctuations of water level on Lake Erie; by Alfred J. Henry. 1902. (See Cd-19.)
- WOEIKOF, ALEXANDER. Der Einfluss einer Schneedecke auf Boden, Klima und Wetter. 1889. (See Qb-17, v. 3, Pt. 3.)

GENERAL SCIENCE—PATENTS.

Yk

- DE SMEDT, E. J. In the U. S. Patent Office, interference; De Smedt vs. Averill, subject—asphalt pavements: Preliminary statement of E. J. De Smedt. Note: Contains also preliminary statement of W. W. Averill. 1879. (See Ne-35.)
- 46 GREAT BRITAIN—PATENT OFFICE. Abridgments of specifications for various subjects from 1897-1900. Lond., 1902. 35 v., il., 11 x 7, pap.
- 99 —Abridgments of specifications relating to acids, alkalies, oxides and salts. Contents: v. 1, 1822-1860. v. 3, Div. 2, 1877-1883, Alkalies, oxides and salts. Lond., 1899-94. 2 v. in 3, 7 x 5, 1/2 skiv., pap.
- 87 —Abridgments of specifications relating to electricity and magnetism. Contents: v. 1, 1766-1857. v. 2, 1858-1866. v. 3, Div. 4, 1877-1883, Electric lighting, igniting and heating. Lond., 1859-93. 3 v. in 5, 7 x 5, 1/2 skiv., pap.

Yk—(Continued).

- 23 —Abridgments of specifications relating to plating or coating metals with metals. Contents: v. 1, 1637-1860. v. 2, 1861-1865. Lond., 1862-67. 2 v., 7 x 5, $\frac{1}{4}$ skiv., pap.
- 23a —Same; v. 2, 1861-1866. ed. 2. Lond., 1872. 1 v., 7 x 5, pap.
- 60 —Abridgments of specifications relating to toys, games and exercises, A. D. 1672-1866. Lond., 1871. 16 + 201 pp., 7 x 5, pap.
- 59 —Abridgments of specifications relating to ventilation, A. D. 1682-1866. Lond., 1872. 52 + 322 pp., 7 x 5, pap.
- 23a —Abridgments of the specifications relating to india rubber (caoutchouc) and gutta-percha; including air, fire, and water-proofing. Lond., 1867. various pagings, 11 x 8, $\frac{3}{4}$ sh.
- 4 —Abridgments of the specifications relating to the manufacture of iron and steel. Contents: v. 1. 1621-1857. v. 3, 1877-1883. Lond., 1858-94. 2 v., 7 x 5, $\frac{1}{4}$ skiv., pap.
- 58 —Guide to the Search Department of the Patent Office Library, with a dictionary of "trade or fancy" words. Lond., 1901. 99 pp., 6 x 4, pap.
- SOCIETY OF PATENT AGENTS.** Journal; 1900-01. (See Sd6-36.1.)
- 43 **UNITED STATES—PATENT OFFICE.** Annual report of the Commissioner of Patents; 1899-1901. Wash., 1900-02. 3 v., 11 x 8, pap.
- 57c —Rules of practice in the United States Patent Office, revised June 18th, 1897. no place, 1897. 111 pp., pl., 9 x 6, pap.

GENERAL SCIENCE—PHYSICS.**Yl**

- 82 **BAREAU, AD.** Physique et chimie. (Bibliothèque du Conducteur de Travaux Publics.) Paris, 1896. 8 + 388 pp., il., 8 x 5, ro.
- BARTLETT, W. H. C.** Elements of analytical mechanics. 1860. (See V-115.)
- CAY, W. D.** Lenses for ships' lights: Communication. (International Cong. on Navigation, 8th.) Note: Text in English and French. Paris, 1900. 7 pp., il., 11 x 7, pap. Ca-8.47.
- DARIES, GEORGES.** Mécanique, hydraulique, thermodynamique. (Bibliothèque du Conducteur de Travaux Publics.) 1896. (See V-123.)
- GUNTHER, SIEGMUND.** Johannes Kepler und der tellurisch-kosmische Magnetismus. 1888. (See Qb-17, v. 3, Pt. 2.)
- 79 **LE CHATELIER, H., and O. BOUDOUARD.** High temperature measurements; tr. by George K. Burgess. N. Y., 1901. 11 + 230 pp., il., pl., 7 x 5, cl.
- 77 **PICKERING, E. C.** Elements of physical manipulation. N. Y., 1873. 12 + 222 pp., il., 9 x 6, cl.
- RANKINE, W. J. M.** Principles of thermodynamics. 1870. (See Gc-101, p. 299.)
- 78 **SPANGLER, H. W.** Notes on thermodynamics; Pt. 1. ed. 2. N. Y., 1901. 1 v., 8 x 5, cl.
- UNITED STATES—WEATHER BUREAU.** Eclipse meteorology and allied problems; by Frank H. Bigelow. 1902. (See Yj-92.)

GENERAL SCIENCE—WEIGHTS AND MEASURES.**Ym**

- AMERICAN METROLOGICAL SOCIETY.** Metric system; detailed information as to laws, practice, etc. N. Y., 1890. 15 pp., 9 x 6, b. p. Bf-34, p. 693.
- AMERICAN SOCIETY OF CIVIL ENGINEERS.** Buffalo Convention: Report of Standard Time Committee. 1884. (See Sa3-1.17.)
- Documents on time reform issued by the Committee on Uniform Standard Time; additional list of replies favorable to the general adoption of the 24 o'clock system throughout North America. no date. (See Sa3-1.16.)
- Report of the Special Committee on Uniform Standard Time. no place, 1889. 21 pp., il., 9 x 6, b. p. Bf-34, p. 619.
- DOWD, C. F.** System of time standards, illustrated with map. no place, 1884. unpagd, map, 9 x 6, b. p. Ah-76, p. 335.
- 87 **DOWSON, J. E.** Should the metric weights and measures be made compulsory? ed. 2. Lond., 1902 (?) 11 pp., 8 x 5, pap.
- GENERAL TIME CONVENTION.** System of standard time as reported to the General and Southern Railway Time Conventions by W. F. Allen, Secretary, at their meetings held on Apr. 11th and 18th, 1883, and unanimously recommended by the Conventions for adoption by the railway lines of the United States and the Dominion of Canada. 1883. (See Qf-529.)
- 83 **HYDE, A. L.** Indikil system: A decimal system of weights and measures for the English speaking people. Cleveland, 1900. 13 pp., tab., 9 x 6, pap.

GENERAL SCIENCE—WEIGHTS AND MEASURES. 275

Ym—(Continued).

- 82 **PHILADELPHIA COMMERCIAL MUSEUM.** Conversion tables of weights and measures and foreign moneys. Phil., 1900. 81 pp., il., tab., 8 x 4, pap.
- 84 **UNITED STATES—HOUSE COMMITTEE ON COINAGE, WEIGHTS AND MEASURES.** Hearing before the Committee. May 3d, 1900. Note: Arguments in favor of establishing a national standardizing bureau for the United States. no place, 1900. 57 pp., 9 x 6, pap. no title-page.
- 85 —Hearing on the metric system of weights and measures. Wash., 1902. 240 pp., 9 x 6, pap.
- 86 —Report on the metric system of weights and measures. Wash., 1902. 10 pp., 9 x 6, pap.
- 81 **UNITED STATES—TREASURY DEPARTMENT.** Letter from the Secretary, transmitting, with accompanying communications, a draft of a bill for the establishment of a national standardizing bureau. (56th Cong., 1st Sess. House doc. No. 625.) Wash., 1900. 11 pp., 9 x 6, pap.

GENERAL SCIENCE—ZOOLOGY.

Yn

- 8 **BERG, D. C.** La vida y costumbres de los termitos; conferencia popular dada en la asamblea general de la Sociedad Científica Argentina, el 17 de Setiembre de 1880. Buenos Aires, 1880. 16 pp., pl., 10 x 7, pap.
- 17 **WOODWARD, S. P.** Manual of the mollusca; or, Rudimentary treatise of recent and fossil shells. Lond., 1851-56. 486 pp., il., pl., 7 x 4, cl.

MISCELLANEOUS.

MISCELLANEOUS—GENERAL.

Za

- 44 **ANDREEN, G. A.** Studies in the idyl in German literature. (Augustana Library Publications, No. 3.) Rock Island, 1902. 96 pp., 11 x 8, pap.
- 42 **ANDREW, J. A.** Errors of prohibition: An argument delivered in the Representatives' Hall, Boston, Apr. 3d, 1837, before a Joint Special Committee of the General Court of Massachusetts. Bost., 1837. 148 pp., 9 x 8, b. p.
- 35 **BAILLAIRGE, C. P. F.** Divers; ou, Les enseignements de la vie. Québec, 1898. 688 pp., 7 x 6, cl.
—La vie; l' évolution; le matérialisme. no place, no date. 37 pp., 9 x 6, b. p. no title-page. Yh-224, p. 425.
- 37 **BALESTIER, J. H.** Historical sketches of Holland Lodge, with incidental remarks on Masonry in the State of New York: An address delivered at Holland Lodge room, in the City of New York, on the evening of Nov. 29th, 1861; to which is added his supplementary address delivered in 1878. ed. 2. N. Y., 1878. 162 pp., 9 x 7, b. p.
- BALTIMORE & OHIO EMPLOYES RELIEF ASSOCIATION.** Annual report; 1886-87. Note: Continued as Relief Department of the B. & O. R. Co. (See Ag-341.)
- BALTIMORE & OHIO R. R. CO.** Relief Department: Annual report; 1st; covering the fiscal year ending Sept. 30th, 1889. Note: Continuation of the Baltimore & Ohio Employes' Relief Association. 1889. (See Ag-342.)
- 37 **BURNETT & WHITNEY.** Superior Court of the United States, General Term; Benjamin F. Butler, Plaintiff and Appellant, against Alphonse Duprat, Defendant and Respondent; Respondent's brief; statement of facts. Note: Case relates to fund held by Defendant in trust for Plaintiff. N. Y., no date. 18 pp., 9 x 6, b. p.
- CAPTIER, GUSTAVE.** Founding of mariners institutions: Professional instruction: Provident and relief societies in France: Report. (International Cong. on Navigation, 8th.) Paris, 1900. 5 pp., 11 x 7, pap. Ca-8.24.
- 7 **CHICAGO PORK PACKERS' ASSOCIATION.** Annual report of the packing of the West; accompanied with detailed reports of the packing of the principal western cities, and other statistical information; 1877. Chic., 1877. 1 v., 9 x 6, pap.
- CONTINENTAL CONSTRUCTION & IMPROVEMENT CO.** By-laws, adopted June, 1881. no place, 1881. 7 pp., 9 x 6, b. p. Ae-283, p. 108.
- CULLOM, S. M.** Address to the soldiers of the Northwest, at Aurora, Aug. 21st, 1879. Springfield, Ill., 1879. 12 pp., 9 x 6, b. p. Ae-395, p. 297.
- 34 **CUSHING, L. S.** Manual of parliamentary practice: Rules of proceedings and debate in deliberative assemblies. Bost., 1870. 189 pp., 6 x 4, cl.
- DEPEW, C. M.** Addresses. N. Y., 1889. 66 pp., 9 x 6, b. p. Aa-79, p. 1.
- GOWEN, F. B.** Argument in the case of the Commonwealth vs. Thomas Munley indicted in the Court of Oyer and Terminer of Schuylkill County, Pa., for the murder of Thomas Sanger, a mining boss, at Rowen Run, on Sept. 1st, 1875. Pottsville, Pa., 1876. 36 pp., 9 x 6, b. p. Af-303, p. 249.
- GREAT BRITAIN—PARLIAMENT.** Act to amend the Friendly Societies Act, 1875. (39 and 40 Vict.) no place, 1876. 8 + 2 pp., 11 x 8, b. p. no title-page. Ae-307, p. 217.
—Act to consolidate and amend the law relating to Friendly and other Societies. (38 and 39 Vict.) no place, 1875. 47 pp., 11 x 8, b. p. no title-page. Ae-307, p. 223.
- GREAT NORTHERN RY. CO. (ENGLAND).** Superannuation fund: Certificate of membership and copy of the rules and regulations dated 25th June, 1875, amended 31st Dec., 1880. Lond., 1880. 23 pp., 8 x 5, b. p. Ae-307, p. 1.
—Superannuation fund: Report of the Managing Committee, to accompany the eighth yearly account of the fund, and balance sheet to 31st Dec., 1882. no place, 1882. 3 pp., 10 x 8, b. p. no title-page. Ae-307, p. 213.
- INSTITUTION OF JUNIOR ENGINEERS.** Course of six lectures, with discussions, on the management of engineering workshops, delivered by Arthur H. Barker, Feb. to Apr., 1901. (See Sd6-11.3.)

Za—(Continued).

- INSTITUTIONS MARINIÈRES;** associations corporatives & mutuelles: Observations sur le rapport de G. Captier. (International Cong. on Navigation, 8th.) Paris, 1900. 8 pp., 9 x 6, pap. Ca-8.24a.
- JUST.** Provident institutions for the working staff of inland and raft navigation: Report. (International Cong. on Navigation, 8th.) Paris, 1900. 21 pp., 11 x 7, pap. Ca-8.22.
- RAILWAY BENEVOLENT INSTITUTION.** Proceedings of the meeting called for the purpose of organizing an institution for the relief of necessitous children and widows of the railway salaried officers, Mar., 1858. Lond., 1858. 15 pp., 8 x 5, b. p. Ae-307, p. 87.
- Report of the proceedings at the annual dinner, special general meeting and annual general meeting; 1858-88. Note: Includes half-yearly reports. (See Sd6-33.1.)
- Rules and regulations, June, 1883. Lond., 1883. 20 pp., 8 x 5, b. p. Ae-307, p. 108.
- RAILWAY EMPLOYEES' MUTUAL BENEFIT ASSOCIATION OF THE WEST** Proceedings, by-laws and articles of association, annual convention; 1878 Chic., 1878. 1 v., 6 x 4, b. p. Af-304, p. 327.
- SHEARMAN & STERLING.** Court of Appeals; Theodore Tilton, Respondent, vs. Henry Ward Beecher, Appellant: Appellant's points; statement. no place, no date. 32 pp., 9 x 6, b. p. no title-page. Af-299, p. 609.
- UNITED KINGDOM RAILWAY OFFICERS' AND SERVANTS' ASSOCIATION.** List of subscribers. Note: Also contains list of subscribers to Railway Orphan Fund. Lond., 1882. 64 pp., 9 x 5, b. p. Ae-307, p. 127.
- Report, balance sheet, accounts, &c.; 1882. Note: Contains report of the Railway Orphan Fund. Lond., 1883. 1 v., 9 x 6, b. p. Ae-307, p. 197.
- Rules. Note: Contains rules for the Railway Provident Society, Railway Officers' and Servants' Fund, and Railway Orphan Asylum Fund. Lond., no date. 56 pp., 8 x 5, b. p. Ae-307, p. 25.
- UNITED STATES—DEPARTMENT OF AGRICULTURE.** Foods and food adulterants; Part Third: Fermented alcoholic beverages, malt liquors, wine and cider; by C. A. Crampton. (Division of Chemistry, Bulletin No. 13.) Wash., 1887. pp. 267-399, 9 x 6, b. p. Bf-34, p. 285.
- 42 **WEST POINT BATTLE MONUMENT:** History of the project to the dedication of the site, June 15th, 1864; oration of Maj.-Gen. McClellan. N. Y., 1864. 35 pp., 9 x 6, b. p.

MISCELLANEOUS—ARCHÆOLOGY.

Za5

- ANDERSON, WINSLOW.** Description of the desiccated human remains in the California State Mining Bureau. 1888. (See Ma-15, No. 1.)
- BAILLAIRGE, C. P. F.** L'antiquité de la terre et de l'homme. no place, 1899. 23 pp., 9 x 6, b. p. Yh-224, p. 333.
- GORBY, S. S.** Pre-historic race in Indiana. 1886. (See Yh-11, Annual report, 1886, p. 286.)
- 3 **UDDEN, J. A.** An old Indian village. Rock Island, Ill., 1900. 80 pp., il., 5 pl., 11 x 8, pap.

MISCELLANEOUS—BIOGRAPHY.

Zb

- 83 **AINSWORTH, DANFORTH HURLBERT.** Recollections of a civil engineer: Experiences in New York, Iowa, Nebraska, Dakota, Illinois, Missouri, Minnesota and Colorado. Newton, Ia., 1901. 192 pp., 8 x 6, 1/4 cl.
- 85 **BAILLAIRGE, CHARLES P. F.** Bilan de M. Baillairegé comme Architecte Ingénieur, Arpenteur-Géomètre, durant les 21 ans, avant d'entrer au service de la Cité, de qualité d'Ingénieur des Ponts et Chaussées, ou de 1845 à 1866; puis, entre heures, de 1866 à 1899, mais non compris les travaux civiliques relatés dans un rapport supplémentaire. no place, no date. 8 pp., 9 x 6, b. p.
- BATES, DAVID STANHOPE (1777-1839).** Sketch of the life of. C. B. Stuart. 1871. (See Zb-63, p. 91.)
- BLAINE, JAMES GILLESPIE (1830-1893).** Mr. Blaine's railroad transactions. no place, 1884. 15 pp., 9 x 6, b. p. Ah-76, p. 341.
- BRYANT, GRIDLEY (1798-1867).** Sketch of the life of. C. B. Stuart. 1871. (See Zb-63, p. 119.)
- CHILDE, JOHN (1802-1858).** Sketch of the life of Captain John Childe. C. B. Stuart. 1871. (See Zb-63, p. 177.)
- CLUVER, PHILIPP (1580-1622).** Der Begründer der historischen Länderkunde. J. Patsch. 1891. (See Qb-17, v. 9, p. 161.)

Zb—(Continued).

- DOUGLASS, DAVID BATES** (1790-1849). Sketch of the life of Major David Bates Douglass. C. B. Stuart. 1871. (See Zb-63, p. 199.)
- ELLET, CHARLES, JR.** (1810-1882). Life of Colonel Charles Ellet, Jr. C. B. Stuart. 1871. (See Zb-63, p. 257.)
- ELLICOTT, ANDREW** (1764-1820). Sketch of the life of. C. B. Stuart. 1871. (See Zb-63, p. 17.)
- 80 FIRBANK, JOSEPH** (1819-1886). Life and work of Joseph Firbank, Railway Contractor. Frederick McDermott. Lond., 1887. 7 + 144 pp., il., por., 9 x 6, cl.
- FORRER, SAMUEL.** Sketch of the life of. C. B. Stuart. 1871. (See Zb-63, p. 286.)
- FRANKLIN, WILLIAM BUEL** (1823-1903). Gen. William B. Franklin and the operations of the left wing at the Battle of Fredericksburg, Dec. 18th, 1862. J. L. Greene. 1900. (See Zg-38.)
- GEDDES, JAMES** (1763-1838). Sketch of the life of. C. B. Stuart. 1871. (See Zb-63, p. 36.)
- GENERAL.**
- 85 BAILLAIRGE, C. P. F.** 20 ans après: Le Club des 21 en 1879: Courte biographie de chacun de ses membres. no place, no date. 12 pp., 9 x 6, b. p.
- BIOGRAPHICAL DIRECTORY OF THE RAILWAY OFFICIALS OF AMERICA;** 1887. (See Aa-99.)
- 63 LIVES AND WORKS OF CIVIL AND MILITARY ENGINEERS OF AMERICA.** C. B. Stuart. N. Y., 1871. 343 pp., il., por., pl., 9 x 6, mor.
- 81 LIVES OF THE ENGINEERS, WITH AN ACCOUNT OF THEIR PRINCIPAL works;** comprising also a history of inland communication in Britain. Samuel Smiles. Lond., 1861-62. 3 v., il., por., 9 x 6, ¼ cl.
- NATIONAL ENCYCLOPÆDIA OF AMERICAN BIOGRAPHY,** being the history of the United States as illustrated in the lives of the founders, builders, and defenders of the Republic, and of the men and women who are doing the work and moulding the thought of the present time, edited by distinguished biographers, selected from each State, revised and approved by the most eminent historians, scholars, and statesmen of the day. 1898-1901. (See U-97.)
- "NEW TAMMANY":** Interesting biographical sketches of its leaders. no place, no date. 15 pp., 9 x 7, b. p. Za-37, p. 59.
- PIONEERS OF THE RAILWAY SYSTEM.** J. S. Jeans. 1875. (See Aj-29, p. 191.)
- UNITED STATES MILITARY ACADEMY.** Biographical register of the Officers and Graduates of the U. S. Military Academy at West Point, N. Y., from its establishment, in 1802, to 1890 with the early history of the United States Military Academy. G. W. Cullum. 1891. (See U-98.)
- Same: Supplement, v. 4, 1890-1900; ed. by Edward S. Holden. 1901. (See U-98.)
- WHO'S WHO IN AMERICA:** A biographical dictionary of notable living men and women of the United States; 1901-02. (See U-95.)
- 82 GOOCH, SIR DANIEL, bart.** (1816-1889). Diaries; with an introductory notice by Sir Theodore Martin. Lond., 1892. 24 + 254 pp., por., pl., 8 x 5, cl.
- HARBACH, FREDERICK** (1817-1851). Sketch of the life of. C. B. Stuart. 1871. (See Zb-63, p. 195.)
- HAUPT, HERMAN.** Reminiscences, giving hitherto unpublished official orders, personal narratives of important military operations and interviews with President Lincoln, Secretary Stanton and others in command of the armies in the field, and his impressions of these men, written by himself; with notes and a personal sketch by Frank Abial Flower. 1901. (See Aj-65.)
- 70 KING, CLARENCE** (1842-1901). A memorial. no place, 1902. 12 pp., por., 9 x 6, pap.
- KNEASS, SAMUEL HONEYMAN** (1806-1858). Sketch of the life of. C. B. Stuart. 1871. (See Zb-63, p. 173.)
- KNIGHT, JONATHAN** (1787-1858). Sketch of the life of. C. B. Stuart. 1871. (See Zb-63, p. 222.)
- LATROBE, BENJAMIN HENRY** (1807-1878). Sketch of the life of. C. B. Stuart. 1871. (See Zb-63, p. 243.)
- LIVINGSTONE, DAVID** (1813-1873). Memorial bulletin: Life and service of Dr. David Livingstone, an Honorary Member of the Society; remarks of Chief-Justice Daly. Mayor H. C. Dane, etc. American Geographical Society. N. Y., 1874. 47 pp., 9 x 6, b. p. Zj-194, p. 119.
- 79 McMAHON, JOHN VANLEAR** (1800-1871). Life. J. T. Mason. Balt., 1879. 140 pp., por., 9 x 6, ¼ sh.
- McREE, WILLIAM** (1788-1832). Sketch of the life of Colonel William McRee. C. B. Stuart. 1871. (See Zb-63, p. 170.)
- MERRIAM, LUCIUS SALISBURY** (1867-1893). Memorial. 1894. (See Aj-45, p. 96.)

Zb—(Continued).

- QUAY, MATTHEW STANLEY.** United States Senator and Chairman of the National Republican Committee; the kind of man this Republican leader is. no place, no date. 16 pp., 9 x 6, b. p. Za-37, p. 75.
- ROBERTS, NATHAN S. (1776-1853).** Sketch of the life of. C. B. Stuart. 1871. (See Zb-63, p. 109.)
- ROEBLING, JOHN AUGUSTUS (1806-1869).** Sketch of the life of. C. B. Stuart. 1871. (See Zb-63, p. 301.)
- 84 SMITH, CHARLES EASTWICK (1820-1900).** Memoir of Charles E. Smith, President of the Philadelphia & Reading R. R., and iron master, 1820 to 1900. E. A. Scott. Buffalo, 1902. 83 pp., por., 10 x 8, cl.
- STEPHENSON, GEORGE (1781-1848).** Sketch of the life of. Michael Reynolds. 1879. (See Ad-196, p. 67.)
- SWIFT, JOSEPH GARDNER (1783-1885).** Sketch of the life of General Joseph G. Swift. C. B. Stuart. 1871. (See Zb-63, p. 132.)
- TANEY, ROGER BROOKE (1777-1865).** Roger Brooke Taney: The annual address delivered before the American Bar Association at its fourth annual meeting, at Saratoga Springs, N. Y., Aug. 18th, 1881. C. N. Potter. Phil., 1881. 26 pp., 9 x 6, b. p. Ae-395, p. 271.
- 69 THURSTON, ROBERT HENRY.** Lists of books, papers, etc. Note: Contains a short sketch of his life. no place, 1902. 7 pp., 9 x 6, pap.
- WATSON, WILLIAM STUART.** Sketch of the life of. C. B. Stuart. 1871. (See Zb-63, p. 293.)
- WHITE, CANVASS (1790-1884).** Sketch of the life of. C. B. Stuart. 1871. (See Zb-63, p. 74.)
- WILLIAMS, JESSE L.** Life of. C. B. Stuart. 1871. (See Zb-63, p. 141.)
- WRIGHT, BENJAMIN (1770-1842).** Life of. C. B. Stuart. 1871. (See Zb-63, p. 48.)

MISCELLANEOUS—CHARITIES AND CORRECTIONS.

Zc

- 7 NEW HAMPSHIRE—STATE BOARD OF HEALTH.** Preliminary report of the investigation conducted under the direction of a concurrent resolution passed at the January Session of the Legislature, 1893, relating to the burning of the Strafford County Asylum for the Insane, and other facts pertaining to the care of the pauper insane in New Hampshire, with conclusions and recommendations. Concord, 1893. 27 pp., 8 x 5, pap.
- NEW YORK STATE CHARITIES AID ASSOCIATION.** Annual report to the State Board of Charities; 13th; 1885. N. Y., 1885. 1 v., 9 x 6, b. p. Bf-34, p. 483.
- WASHBURN, EMORY.** Reasons for a separate state prison for women. Bost., 1874. 8 pp., 9 x 6, b. p. Af-297, p. 631.

MISCELLANEOUS—COMMERCE.

Zd

- 56 BUFFALO, N. Y.** Annual report of the Merchants' Exchange, including statistics of the trade and commerce of Buffalo; 1885, '89-1900. Buffalo, 1886-1901. 13 v., maps, 9 x 6, pap.
- 86 —** Proceedings at the inauguration of the Buffalo Merchants' Exchange, Jan. 1st, 1884. Buffalo, 1884. 34 pp., il., maps, 9 x 6, pap.
- CANADA.** Report on the state of trade between the United States and British possessions in North America; prepared for the Secretary of the Treasury, in compliance with a joint resolution of Congress; by J. N. Larned. U. S.—Treasury Department. Wash., 1871. 48 pp., 9 x 6, b. p. Za-36, p. 115.
- 35 CHICAGO, ILL.** Annual report of the trade and commerce of Chicago; 11th; 1868. Chicago Board of Trade. Chic., 1869. 1 v., 9 x 6, cl.
- 102 CHILE.** Estadística comercial de la Republica de Chile; 1899. Chile—Departamento de la Estadística Comercial. Valparaiso, 1900. 1 v., 10 x 7, cl.
- 52 CLEVELAND, OHIO.** Annual report of the trade and commerce of Cleveland; 1892. Cleveland Board of Trade. Cleveland, 1892. 1 v., map, tab., 9 x 6, pap.
- DUNKIRK, FRANCE.** Dunkerque; son port, son commerce: Notice. Dunkerque Chambre de Commerce. 1900. (See Cc-487.)
- GENERAL.**
- MARTIN, LOUIS.** Droit commercial et législation industrielle. (Bibliothèque du Conducteur de Travaux Publics.) 1901. (See Zh-46.)
- INDIANAPOLIS, IND.** Annual report of the Board of Trade; 1873. Indianapolis, 1874. 1 v., map, 9 x 6, b. p. Af-297, p. 139.
- Same;** 1875. Indianapolis, 1876. 1 v., 9 x 6, b. p. Ag-307, p. 31.

Zd—(Continued).

- ITALY.** Provvedimenti economici ed amministrativi che possono concorrere a facilitare l'esecuzione e l'esercizio di opere d'interesse precipuamente commerciale nei principali porti del Regno, e in particolare nel porto di Genova; studio preparato e presentato alla commissione d'ordine di S. E. il Ministro dei Lavori Pubblici. Luigi Luiggi. 1895. (See Cc-758.)
- LONDON, ENGLAND.** Scientific, historical and commercial survey of the Harbour and Port of London, containing accounts of its history, privileges, functions and government; its extent, divisions and jurisdictions; tidal and other scientific observations, etc. James Elmes. 1838. (See Cc-1291.)
- MANCHESTER, ENGLAND.** Manchester Ship Canal: The economic results of the ship canal on Manchester and the surrounding district. 1899. (See Cfe-44.)
- MASSACHUSETTS.** Statistics relating to fisheries, commerce and agriculture. Mass.—Census, 1895. 1899. (See Qc-30, v. 6.)
- 87 **MONTREAL, QUE.** Annual report of the Board of Trade; 1888-89, '92. Note: Report for 1892 is the semi-centennial report of the Montreal Board of Trade with sketches of the growth of the City of Montreal from its foundation, statistics of progress. Montreal, 1888-93. 2 v., pl., tab., 9 x 6, pap.
- 89 **NEW YORK CITY.** Annual address of the President of the New York Produce Exchange with accompanying documents, May 27th, 1879. no place, 1879. 28 pp., 9 x 6, pap.
- 36 —Annual report of the Chamber of Commerce; 42d; 1899-1900. N. Y., 1900. 1 v., 9 x 6, cl.
- 81 —Decline of the commerce of the Port of New York. R. P. Morgan. Champaign, Ill., 1901. 18 pp., map, 10 x 7, pap.
- 101 —Report of the New York State Commerce Commission. Albany, 1900. 3 v., maps, 9 x 6, cl.
- State canal tolls; the diversion of trade from the City of New York and from the New York canals: Report of Mr. Walker, Statistician of the Exchange, on this diversion of trade; proceedings of a meeting of the New York Produce Exchange in relation thereto, held Feb. 10th, 1873. (See Cfe-45.)
- 84 **PHILIPPINE ISLANDS.** Trade of the Philippine Islands; by Frank H. Hitchcock. U. S.—Department of Agriculture. (Section of Foreign Markets. Bulletin No. 14.) Wash., 1898. 160 pp., tab., 9 x 6, pap.
- PROVIDENCE, R. I.** Commerce at Providence: An address delivered by the President of the Providence Board of Trade, at its annual meeting, Jan. 10th, 1883. C. W. Lippitt. Providence, 1883. 16 pp., tab., 9 x 6, b. p. Ah-76, p. 171.
- 46 **ST. LOUIS, MO.** Annual statement of the trade and commerce of St. Louis; 1900-01. Merchants' Exchange. St. Louis, 1901-02. 2 v., pl., 9 x 6, pap.
- SOUTH AMERICA.** Inter-oceanic communication on the Western Continent: A study in commercial geography. G. E. Church. 1902. (See Cfb-38.)
- UNITED STATES.** Address delivered before the Illinois State Bar Association at Springfield, Ill., Jan. 15th, 1890, on some of the practical workings of the Inter-State Commerce Law. John McNulta. no place, no date. 24 pp., 9 x 6, b. p. Aa-61, p. 745.
- 88 —An American marine; its utility, creation and maintenance. W. W. Bates. (The Farmers' National Congress, Atlanta, 1895.) N. Y., 1895. 22 pp., 9 x 6, pap.
- Annual statistical report of the American Iron and Steel Association; 1897-1901. (See Sa3-84.1.)
- Commercial and financial strength of the United States, as shown in the balances of foreign trade and the increased production of staple articles. Lorin Blodget. Phil., 1864. 39 pp. 9 x 6, b. p. Zj-191, p. 37.
- Decay of our ocean mercantile marine; its cause and its cure: Will subsidizing ships bring back our foreign commerce, and afford markets for the surplus products of our manufacturing industries? D. A. Wells. N. Y., 1889. 48 pp., 8 x 5, b. p. Za-40, p. 231.
- Inter-oceanic communication on the Western Continent: A study in commercial geography. G. E. Church. 1902. (See Cfb-38.)
- Inter-state commerce. N. Y., 1887. 12 pp., 9 x 6, b. p. no title-page. Af-298, p. 153.
- Inter-State Commerce Act of Feb. 4th, 1887, with summary of its provisions. F. M. Leonard. Phil., 1887. 15 pp., 9 x 6, b. p. Af-298, p. 237.
- Inter State Commerce Act: Review of some of its possible applications to freight transportation, as they appeared prior to Apr. 5th, 1887. F. J. Firth. no place, no date. 34 pp., 9 x 6, b. p. Af-298, p. 115.
- Inter-State Commerce Bill. H. V. Poor. Note: A discussion of transportation in the United States with reference to pending bill. N. Y., no date. 10 pp., 9 x 6, b. p. Ah-76, p. 465.
- Inter-state commerce: Remarks in the Senate of the United States, Jan., 1887. S. M. Cullom. no place, 1887. 24 pp., 9 x 6, b. p. no title-page. Ah-76, p. 411.

Zd—(Continued).

- Inter-state commerce: Speech in the House of Representatives, Dec. 8th, 1884. W. W. Rice. Wash., 1885. 15 pp., 9 x 6, b. p. Ah-76, p. 495.
- Inter-state commerce: Speech in the Senate of the United States, Jan. 16th, 1885. C. H. Van Wyck. Wash., 1885. 14 pp., 9 x 6, b. p. Ah-76, p. 451.
- Inter-state commerce: The railway and express system. H. C. Lord. no place, 1880. 16 pp., 9 x 6, b. p. no title-page. Ae-385, p. 27.
- Memorial to the Forty-Third Congress of the United States: A statement of the necessities of the people of the Mississippi Valley, in respect to the transportation of their products and the improvement of their natural channels of commerce. St. Louis Union Merchants' Exchange. St. Louis, 1874. 194 pp., maps, 9 x 6, b. p. Ah-78, p. 1.
- Regulation of inter-state commerce: Speech delivered in the Senate of the United States, Dec. 21st, 1886. J. F. Wilson. Wash., 1886. 13 pp., 9 x 6, b. p. Ah-76, p. 397.
- Report on the state of trade between the United States and British possessions in North America; prepared for the Secretary of the Treasury, in compliance with a joint resolution of Congress; by J. N. Larned. Wash., 1871. 48 pp., 9 x 6, b. p. Za-36, p. 115.
- Review of the Inter-State Commerce Bill as reported by the Conference Committee at Washington, Dec., 1886. G. R. Blanchard. Chic. 1886. 15 pp., tab., 9 x 6, b. p. Af-296, p. 85.
- Shipping, tariffs and subsidies. G. H. Schwab. N. Y., 1889. pp. 398-468, 20 tab., 9 x 6, b. p. Zj-193, p. 269.
- Speech in the House of Representatives, Feb. 18th, 1873, in support of the resolution reported by the Committee on Commerce for promoting and improving the natural and artificial channels of water communication. J. S. Negley. 1873. (See Cfb-166.)
- 82 —The world's commerce and the United States' share of it. Philadelphia Commercial Museum. Phil., 1901. 20 pp., tab., 9 x 4, pap.
- 12 UNITED STATES—BUREAU OF FOREIGN COMMERCE. Commercial relations of the United States with foreign countries; 1901. Note: Prior to July, 1897, this bureau was known as the Bureau of Statistics (State Dept.). Wash., 1902. 2 v., 9 x 6, cl.
- 11 —Consular reports: Commerce, manufactures, etc.; Sept., 1900-Apr., '02 (v. 64-68). Wash., 1900-02. 5 v., 9 x 6, pap.
- 11a —Same; General index; 1890-1900 (v. 1-63). Wash., 1887-1901. 5 v., 9 x 6, pap.
- 76 —Exports declared for the United States during the four quarters of the fiscal year ended June 30th, 1899-1901. Note: For quarterly reports, see Zd-13. Wash., 1900-02. 3 v., 9 x 6, pap.
- 13 —Exports declared for the United States; returns from Consular Districts for quarter ended Sept., 1899-Dec., 1901. Wash., 1900-01. 7 v., 9 x 6, pap.
- Foreign imports of American tobacco. 1900. (See Zd-14, Special consular reports, v. 20, Pt. 1.)
- Foreign markets for American coal. 1900. (See Zd-14, Special consular reports, v. 21, Pt. 1.)
- Market for ready-made clothing in Latin America. 1900. (See Zd-14, Special consular reports, v. 20, Pt. 1.)
- 22 —Review of the world's commerce; introductory to Commercial relations of the United States with foreign countries during the years 1898-1901. Wash., 1899-1902. 4 v., 9 x 6, pap.
- 14 —Special consular reports: v. 16 (supplement), 19-22, 23, Pt. 2. Wash., 1900-02. 6 v. in 11, il., maps, 9 x 6, pap.
- Slave trade in foreign countries. 1900. (See Zd-14, Special consular reports, v. 20, Pt. 3.)
- UNITED STATES—BUREAU OF NAVIGATION (TREASURY DEPT.). Annual report of the Commissioner of Navigation for the fiscal year ended June 30th, 1885-92, 1900-02. (See Ka-91.)
- 16 UNITED STATES—BUREAU OF STATISTICS (TREASURY DEPT.). Annual report of the Chief of the Bureau on the commerce and navigation of the United States; 1879, June, '93-94, 1900-01. Wash., 1879-1901. 7 v., pl., maps, tab., 9 x 6, 12 x 9, cl.
- Statistics relating to commerce; 1878-79, '88, 1900-01. (See Qc-37.)
- 23a —Wool and manufactures of wool: Special report relating to the imports and exports of wool and its manufactures in the United States and the principal foreign countries. Wash., 1887. 93 + 231 pp., 9 x 6, pap.
- 80 UNITED STATES—DEPARTMENT OF AGRICULTURE. Distribution of the agricultural exports of the United States, 1894-1898; by Frank H. Hitchcock. (Bulletin No. 16. Section of Foreign Markets.) Wash., 1899. 151 pp., tab., 9 x 6, pap.

Zd—(Continued).

- 77 —Our foreign trade in agricultural products, 1894-1898; by Frank H. Hitchcock. Wash., 1899. 45 pp., tab., 9 x 6, pap.
- 79 —Our trade with Japan, China and Hongkong, 1889-1899; by Frank H. Hitchcock. Wash., 1900. 168 pp., tab., 9 x 6, pap.
- 78 —Sources of the agricultural imports of the United States, 1894-1898; by Frank H. Hitchcock. Wash., 1900. 118 pp., tab., 9 x 6, pap.
- 91 **UNITED STATES—HOUSE COMMITTEE ON COMMERCE.** Arguments and statements before the Committee on Commerce in relation to certain bills referred to that Committee proposing Congressional regulation of interstate commerce. no place, no date. 176 pp., 9 x 6, pap.
- UNITED STATES—INTERSTATE COMMERCE COMMISSION.** Annual report; 1899-1901. (See Ai-6.)

MISCELLANEOUS—FINE ARTS.**Ze**

- AMERICAN CERAMIC SOCIETY.** Transactions, containing the papers and discussions of the annual meeting; 1901-02. (See Sa3-173.1.)
- 26 **MIRON, FRANÇOIS.** Photographie. (Bibliothèque du Conducteur de Travaux Publics.) Paris, 1897. 8 + 437 pp., il., 8 x 5, ro.
- 14 **RESKA, P. A.** Historical sketch on the fine arts of Chile and catalogue of the fine arts in the Chile Building at the Pan-American Exposition. Buffalo, 1901. 29 pp., pl., 10 x 7, pap.

MISCELLANEOUS—FISHERIES.**Zf**

- CANADA—DEPARTMENT OF MARINE AND FISHERIES.** Annual report; 1901. (See Ka-38.)
- 9 **CONNECTICUT—SHELL-FISH COMMISSIONERS.** Annual report for the year ending Sept. 30th, 1881-1901. Note: Reports, 1889-94, issued biennially. Bridgeport, 1882-1901. 18 v., il., maps, 9 x 6, pap.
- MASSACHUSETTS—CENSUS, 1895.** Statistics relating to fisheries, commerce and agriculture. 1899. (See Qc-30, v. 6.)
- 15 **MINNESOTA—STATE BOARD OF GAME AND FISH COMMISSIONERS.** Game and fish laws of Minnesota. St. Paul, 1901. 49 pp., 6 x 4, pap.
- 1 **NEW YORK STATE—COMMISSIONERS OF FISHERIES.** Annual report; 2d, 4th-6th, 8th, 15th; 1869, '71-73, '75, '86. Albany, 1869-87. 6 v., pl., maps, 9 x 6, pap.
- 22 **NEW YORK STATE—FISHERIES, GAME AND FOREST COMMISSION.** Annual report; 4th, 6th; 1898, 1900. N. Y., 1899-1901. 2 v., il., tab., 12 x 9, cl.
- 13 **POMAR, LUIS.** Account of the fishing industry in Chile, read at the Sixth General Scientific Congress held in La Serena in Jan., 1900. Santiago, 1901. 47 pp., 11 x 7, pap.
- 12 **REED, E. C., and others.** Fisheries in Chile. Santiago, 1901. 68 pp., 10 x 7, pap.
- REPASSY, NICOLAS.** La pêche et la pisciculture en Hongrie. 1900. (See Ca-92, Brochure 10.)
- 14 **TEXAS—STATE FISH AND OYSTER COMMISSIONER.** Report on the coast fisheries of Texas; by I. P. Kibbe. Austin, 1898. 20 pp., 9 x 6, pap.
- UNITED STATES—CENSUS, 9th, 1870.** Statistics of the wealth and industry of the United States, embracing the tables of wealth, taxation, and public indebtedness, of agriculture, manufactures, mining and the fisheries; comp. by Francis A. Walker. 1872. (See Qc-9.5.)
- 23 **UNITED STATES—TREASURY DEPARTMENT.** American fisheries: Reply of the Secretary to the Resolution of the House of Representatives of Dec. 14th, 1886. Note: Relates to tariff on fish. Wash., 1887. 16 + 65 pp., tab., 9 x 6, cl.

MISCELLANEOUS—HISTORY.**Zg**

- 27 **ALASKA.** Explanation of an Indian map of the rivers, lakes, trails and mountains from the Chilkat to the Yukon, drawn by the Chilkat chief. Kohlux, in 1869. George Davidson. no place. 1901. 8 pp., map, 10 x 7, pap.
- CUBA.** List of books relating to Cuba, including references to collected works and periodicals, by A. F. C. Griffin, Assistant Librarian of Congress; with bibliography of maps, by F. Lee Phillips, Superintendent, Maps and Charts Department. U. S.—Library of Congress. 1896. (See Qd-83.)

Zg—(Continued).

- 26 **NORTH AMERICA.** Tracks and landfalls of Bering and Chirikof on the north-west coast of America, from the point of their separation in latitude 49° 10', longitude 176° 40' west, to their return to the same meridian, June, July, Aug., Sept., Oct., 1741. George Davidson. no place, 1801. 44 pp., map, 10 x 7, pap.
- PHILIPPINE ISLANDS.** Letter from the Secretary of War, transmitting an article on the people of the Philippines, compiled in the Division of Insular Affairs. U. S.—War Department. 1901. (See Qd-101.)
- Report to the President, Jan. 31st, 1900. U. S.—Philippine Commission. (See Zj-205.)
- UNITED STATES.** Captives of the *Amistad*: A paper read before the New Haven Colony Historical Society. S. E. Baldwin. Note: Legal review of the case. no place, 1886. pp. 331-370, 9 x 6, b. p. Za-38, p. 167.
- 38 —Gen. William B. Franklin and the operations of the left wing at the Battle of Fredericksburg, Dec. 13th, 1862. J. L. Greene. Hartford, 1900. 38 pp., por., 8 x 6, cl.
- Second Regiment of United States Volunteer Engineers: A history. W. M. Venable. 1899. (See La-35.)

MISCELLANEOUS—LAW.

Zh

- ASSOCIATION OF THE BAR OF THE CITY OF NEW YORK.** Charter, constitution and by-laws, and list of officers and members. N. Y., 1876. 47 pp., 9 x 6, b. p. Za-39, p. 233.
- BALDWIN, S. E.** Captives of the *Amistad*: A paper read before the New Haven Colony Historical Society. Note: Legal review of the case. no place, 1886. pp. 331-370, 9 x 6, b. p. Za-38, p. 167.
- BROWN, H. B.** Judicial independence: A paper read at the meeting of the American Bar Association at Chicago, Ill., Aug. 28th, 1889. Phil., 1889. 26 pp., 9 x 7, b. p. Za-37, p. 1.
- CHAMBERLAIN, D. H.** Address to the graduating class at the Commencement exercises of Columbia College Law School, May 26th, 1886, in the Academy of Music, New York City. no place, 1886. 19 pp., 9 x 6, b. p. Ye-293, p. 277.
- American system of trial by jury: An address delivered before the American Social Science Association at its annual convention at Saratoga, Sept. 8th, 1887. Bost., 1887. 42 pp., 9 x 6, b. p. Za-38, p. 209.
- Oration on some of the relations and present duties of the legal profession to our public life and affairs; delivered before the Yale Law School at its fifty-first anniversary, June 30th, 1875. New Haven, 1875. 34 pp., 9 x 6, b. p. Za-39, p. 211.
- Some of the present needs and duties of our profession: An address delivered before the Alumni Association of Harvard Law School at Cambridge, June 26th, 1888. N. Y., 1888. 21 pp., 9 x 6, b. p. Za-38, p. 91.
- CITY CLUB OF NEW YORK,** comp. Calendar of the New York City Charter, giving all times fixed by the charter at or within which the municipal officers are to perform certain duties, etc., etc. 1900. (See Sa3-177.2.)
- General index of the New York City Charter with table of amendments. 1900. (See Sa3-177.2, p. 61.)
- DAWSON, S. E.** Copyright in books; an inquiry into its origin, and an account of the present state of law in Canada: A lecture being one of the "Occasional lectures" delivered before the Law School of Bishop's College at Sherbrooke, P. Q., Jan. 26th, 1882. Montreal, 1882. 40 pp., 9 x 6, b. p. Zj-193, p. 637.
- FIELD, D. D., D. L. FOLLETT, and WILLIAM RUMSEY.** Draft code of evidence as revised by the Commissioners under Chapter 124 of the Laws of 1887. Note: Presented to the Legislature of the State of New York. no place, no date. 46 pp., 9 x 6, b. p. no title-page. Za-38, p. 27.
- 45 **GREGORY, C. C.** The engineer or architect as the arbitrator between the employer and the contractor; and his other functions, under building contracts. Lond., 1901. 12 + 340 pp., 9 x 6, cl.
- 51 **IOWA—GENERAL ASSEMBLY.** Code of Iowa, passed at the session of the General Assembly of 1850-1, and approved 5th Feb., 1851. Iowa City, 1851. 15 + 685 pp., 9 x 6, sh.
- 47 **MARTIN, LOUIS.** Droit civil. (Bibliothèque du Conducteur de Travaux Publics.) Paris, 1896. 10 + 500 pp., 8 x 5, ro.
- 46 —Droit commercial et législation industrielle. (Bibliothèque du Conducteur de Travaux Publics.) Paris, 1901. 8 + 671 pp., 8 x 5, ro.
- 48 —Procédure civile et droit pénal. (Bibliothèque du Conducteur de Travaux Publics.) Paris, 1896. 10 + 452 pp., 8 x 5, ro.
- 50 **NEW YORK CITY—COMMON COUNCIL.** Ordinances of the Mayor, Aldermen and Commonalty of the City of New York, in force Jan. 1st, 1881; revised by Elliott F. Shepard and Ebenezer B. Shafer. N. Y., 1881. 304 pp., 9 x 6, sh.

Zh—(Continued).

- 34 **NEW YORK STATE—CHARTER REVISION COMMITTEE.** Report to the Governor of the State of New York, with proposed amendments to the Greater New York Charter, Dec. 1st, 1900. N. Y., 1900. 814 pp., 9 x 6, ½ cl.
- 4 **NEW YORK STATE—UNIVERSITY.** Library bulletin: Legislation; Nos. 13-14; 1900-01. Albany, 1900-01. 2 v., 10 x 7, pap.
- 15 **REINSCH, P. S.** English common law in the early American colonies. (Bulletin of the University of Wisconsin, No. 31.) Madison, 1899. 64 pp., 10 x 6, pap.
- 49 **WAIT, J. C.** Law of contracts: A text-book for technical schools of engineering and architecture. N. Y., 1901. 14 + 838 pp., 9 x 6, cl.
- 48 — Law of operations preliminary to construction in engineering and architecture: Rights in real property, boundaries, easements, and franchises; for engineers, architects, contractors, builders, public officers and attorneys at law. N. Y., 1900. 63 + 638 pp., 9 x 6, sh.

Zi**MISCELLANEOUS—MANUFACTURES.****BEER.**

BREWING BY THE JEBB PROCESS. Note: Text in German and English. N. Y., 1887. 15 pp., pl., 9 x 6, b. p. Zj-191, p. 1.

CIGARS AND CIGARETTES.

UNITED STATES—BUREAU OF FOREIGN COMMERCE. Cigar and cigarette industry in Latin America. 1900. (See Zd-14, Special consular reports, v. 20, Pt. 1.)

COKE.

HEIGHLEY, F. C. Coke-making at the Oliver coke-works. 1902. (See Sd6-3.1, v. 24, p. 215.)

KIRCHHOFF, C. Coal and coke supply of Germany. 1900. (See Yi-29, p. 14.)

MINERAL INDUSTRY: Its statistics, technology, and trade in the United States and other countries; 1893-1901. (See Ma-12.)

UNITED STATES—GEOLOGICAL SURVEY. Statistics and information relating to the yearly production of coke in the United States; 1897-1900. (See Yh-40.)

WEST, T. D. Manufacture and properties of coke. 1902. (See Yi-103, p. 3.)

COTTON.

ATKINSON, EDWARD. Cotton and cotton manufactures in the United States. Bost., 1880. 44 pp., 10 x 7, b. p. Aj-52, p. 77.

NEW ENGLAND COTTON MANUFACTURERS' ASSOCIATION. Transactions; Apr., 1896, Oct., 1900-Sept., '01. (See Sa3-43.1.)

UNITED STATES—BUREAU OF FOREIGN COMMERCE. Book cloth in foreign countries. 1900. (See Zd-14, Special consular reports, v. 20, Pt. 1.)

GENERAL.

DODD, GEORGE. Dictionary of manufactures, mining, machinery and industrial arts. 1899. (See U-48.)

FRANKLIN INSTITUTE. Report of the twenty-seventh exhibition of American manufacturers, held in the City of Philadelphia, from Oct. 6th to Nov. 12th, 1874, by the Franklin Institute of the State of Pennsylvania, for the Promotion of the Mechanic Arts. 1874. (See Sa3-11.10.)

- 8 **MASSACHUSETTS—BUREAU OF STATISTICS OF LABOR.** Annual statistics of manufactures; 14th-16th; 1899-1901. Bost., 1900-02. 3 v., 9 x 6, cl.

MASSACHUSETTS—CENSUS, 1895. Statistics relating to manufactures. 1898. (See Qc-50, v. 5.)

MINNESOTA—COMMISSIONER OF STATISTICS. Statistics of Minnesota pertaining to manufactures; 1879, '82, '84. (See Qc-36.)

- 11 **NORWAY—KONGELIGE TOLDKOMMISSION.** Statistik over Norges fabrikanlæg; 1875. Kristiania, 1879. 1 v., 12 x 10, pap.

UNITED STATES—BUREAU OF STATISTICS (TREASURY DEPT.). Statistics relating to manufactures; 1878-79, 88, 1900-01. (See Qc-37.)

UNITED STATES—CENSUS, 9th, 1870. Statistics of the wealth and industry of the United States, embracing the tables of wealth, taxation, and public indebtedness, of agriculture, manufactures, mining and the fisheries; comp. by Francis A. Walker. 1872. (See Qc-9.5.)

GLUE.

- 32 **DAWIDOWSKY, F.** Practical treatise on the raw materials and fabrication of glue, gelatine, gelatine veneers and foils, isinglass, cements, pastes, mucilages, etc.; translated from the German, with extensive additions, including a description of the most recent American processes, by William T. Brannt Phil., 1884. 15 + 237 pp., il., 7 x 5, cl.

Zi—(Continued).

IRON AND STEEL GOODS.

BECK, LUDWIG. Die Geschichte des Eisens in technischer und kulturgeschichtlicher Beziehung; v. 1-4; v. 5, Fts. 1-6. 1891-1902. (See Y1-106.)

OIL.

CHARPENTIER, HENRI. Houille. (Bibliothèque du Conducteur de Travaux Publics.) 1900. (See Yh-217, p. 334.)

GALINE, L., and B. SAINT-PAUL. Traitement des huiles minérales. (Bibliothèque du Conducteur de Travaux Publics.) 1898. (See Ia-26, p. 25.)

THURSTON, R. H. Friction and lubrication: Determinations of the laws and coefficients of friction by new methods and with new apparatus. 1879. (See Ga-153.)

PAPER.

UNITED STATES—BUREAU OF FOREIGN COMMERCE. Paper in foreign countries; uses of wood pulp. 1900. (See Zd-14, Special consular reports, v. 19.)

POTTERY.

BURROUGHS & MOUNTFORD, pub. The potter's wheel and how it goes around: A complete description of the manufacture of pottery in America. Trenton, no date. 63 pp., il., 9 x 7, b. p. Za-37, p. 203.

SALT.

MINERAL INDUSTRY: Its statistics, technology, and trade in the United States and other countries; 1898-1901. (See Ma-12.)

20 **NATIONAL SALT CO.** Annual report; 1900. N. Y., 1900. 1 v., 9 x 7, pap.

SULPHATE OF AMMONIA.

21 **CHILE—DELEGACION FISCAL DE SALITRERAS Y GUANERAS.** Informes sobre la produccion del sulfato de amoniaco. Iquique, 1897. 110 pp., 9 x 6, pap.

MINERAL INDUSTRY: Its statistics, technology, and trade in the United States and other countries; 1898-1901. (See Ma-12.)

VEHICLES.

UNITED STATES—BUREAU OF FOREIGN COMMERCE. Vehicle industry in Europe. 1900. (See Zd-14, Special consular reports, v. 21, Pt. 2.)

WOOL.

HARRIS, EDWARD, and others. Wool and woollens: The truth of the report of the Special Commissioner vindicated by the testimony of woollen manufacturers of the United States. Note: Relates to the tariff on woollens. no place, 1870. 7 pp., 9 x 6, b. p. no title-page. Zj-196, p. 91.

UNITED STATES—BUREAU OF STATISTICS (TREASURY DEPT.). Wool and manufactures of wool: Special report relating to the imports of wool and its manufactures in the United States and the principal foreign countries. 1887. (See Zd-23a.)

MISCELLANEOUS—POLITICAL ECONOMY.

Zj

185 **ALDRICH, N. W.** Tariff act of 1890 defended: Speech in the Senate of the United States, July 26th, 1892. no place, 1892. 35 pp., tab., 9 x 6, pap. no title-page.

198 **AMERICAN BANKERS' ASSOCIATION.** Action of the Executive Council of the American Bankers' Association at its meeting in New York City on Oct. 16th and 17th, 1889, upon the proposition of Mr. St. John to substitute silver certificates for legal tender and National bank notes and to increase the coinage of the silver dollar; together with letters and papers expressing the individual views of the members of the Council in regard to the proposition. N. Y., 1889. 40 pp., 9 x 6, b. p.

AMERICAN ECONOMIC ASSOCIATION. Railway question: The report of the Committee on Transportation; with the paper read at the Boston meeting, May 21st-25th, 1887, on "The agitation for federal regulation of railways," by Edmund J. James. (Publications, v. II, No. 3.) no place, 1887. 68 pp., 9 x 6, b. p. Aa-84, p. 473.

ASHLEY, O. D. Anti-railway legislation. N. Y., 1889. 24 pp., 9 x 6, b. p. Aa-85, p. 1.

—Railway corporations and the people: A paper read before "The Round Table," St. Louis, Mar. 11th, 1893. (See Ae-118.)

ATKINSON, EDWARD. An American view of American competition. no place, 1879. pp. 383-396, 9 x 6, b. p. no title-page. Af-308, p. 285.

194 —Argument for the conditional repeal of the Legal-Tender Act. Bost., 1874. 32 pp., 9 x 6, b. p.

Zj—(Continued).

- 199 —Distribution of products; or, Mechanism and the metaphysics of exchange: Three essays, What makes the rate of wages? What is a bank? The railway, the farmer and the public. N. Y., 1885. 5 + 303 pp., il., tab., 8 x 5, cl.
- Revenue reform: An essay. Bost., 1871. 31 pp., 9 x 6, b. p. Za-36, p. 163.
- The railroad and the farmer. Nos. one and two; and the Standard of adequate railroad service. N. Y., 1883. various pagings, tab., 9 x 6, b. p. Ab-455, p. 98.
- BALDWIN, S. E.** Annual address before the American Bar Association delivered at Chicago, Aug. 29th, 1889, on the centenary of modern government. Phil., 1889. 32 pp., 9 x 6, b. p. Za-37, p. 27.
- State of Connecticut, General Assembly, January Session, 1888; railroad taxation, facts submitted to the Joint Standing Committee on Finance, in support of the bill for an act to reduce the rate of railroad taxation. no place, 1888. 13 pp., 9 x 6, b. p. no title-page. Ah-76, p. 117.
- BELL, CLARK.** China mail service: First argument of the Attorney and Counsel for the Pacific Mail Steamship Co., before the Judiciary Committee of the Senate, Feb. 17th, 1875. Note: Argument against the withdrawal of the subsidy granted to the P. M. S. Co. for carrying the mails. Wash., 1875. 98 pp., tab., 9 x 6, b. p. no title-page. Aa-31, p. 301.
- China mail service: Second argument of the Attorney and Counsel for the Pacific Mail Steamship Co., before the Judiciary Committee of the Senate, Feb. 17th, 1875. Note: Argument against the withdrawal of the subsidy granted to the P. M. S. Co. for carrying the mails. Wash., 1875. 18 pp., 9 x 6, b. p. Aa-31, p. 397.
- BONHAM, J. M.** Railway secrecy and trusts. 1890. (See Aa-98.)
- BOOKWALTER, J. W.** Home and international trade; how the tariff affects it. N. Y., 1886. 97 pp., 9 x 6, b. p. Ye-293, p. 23.
- BOYNTON, E. M.** Money of the future. no place, no date. 36 pp., 9 x 6, b. p. Bf-34, p. 641.
- On finance: Speech at Fraternity Hall, Newburyport, Mar. 8th, 1878. no place, 1878. 16 pp., 9 x 6, b. p. Bf-34, p. 677.
- 197 **BRASSEY, THOMAS.** Work and wages practically illustrated. N. Y., 1872. 16 + 296 pp., 9 x 6, cl.
- BRITISH IRON TRADE ASSOCIATION.** American industrial conditions and competition: Reports of the Commissioners appointed by the Association to inquire into the iron, steel and allied industries of the United States; ed. by J. Stephen Jeans. 1902. (See Sd6-23.2.)
- 194 **BUELL, JAMES.** Statement before the Committee on Banking and Currency. Washington, D. C., Feb. 9th, 1874. Note: Opinion on the monetary system, its defects and remedies. Wash., 1874. 19 pp., 9 x 6, b. p.
- 196 **BUTT, ISAAC.** Land tenure in Ireland: A plea for the Celtic race. ed. 2. Dublin, 1866. 104 pp., 9 x 6, b. p.
- 203 **CAMPREDON, EUGENE.** Rôle économique et social des voies de communication. (Bibliothèque du Conducteur de Travaux Publics.) Paris, 1899. 8 + 515 pp., maps, 8 x 5, ro.
- CHARACTER OF THE NATIONAL GOVERNMENT OF THE SO-CALLED FREE America of 1890.** Bost., 1890. 31 pp., 9 x 6, b. p. Bf-34, p. 253.
- 193 **CLEVELAND, GROVER, and others.** Taxation and revenue discussed by President Cleveland in his message to Congress, Dec. 6th, 1887; the Hon. James G. Blaine in his Paris interview reported in the *N. Y. Tribune*; the Hon. Henry Watterson in *Harper's Magazine* for Jan., 1888; and the Hon. George F. Edmunds in *Harper's Magazine* for Feb., 1888. Note: Relates to the disposition of the surplus in the United States Treasury. N. Y., 1888. 68 pp., 9 x 6, b. p.
- CONNECTICUT—SPECIAL COMMISSION ON STATE TAXATION.** Report of the Special Commission, appointed under the resolution of the General Assembly, approved April 4th, 1884, on the subject of taxation, with bills recommended for adoption and statistical tables. New Haven, 1877. 116 pp., tab., 9 x 6, b. p. Ah-76, p. 1.
- 191 **CONNECTICUT—TAX COMMISSION.** Report to the General Assembly of 1886. Hartford, 1886. 19 pp., 9 x 6, b. p.
- COTTERILL, G. W., and J. K. PORTER.** Appellant's points on appeal from an order dissolving an injunction with liberty to appeal, the injunction to continue until decision on appeal; Supreme Court, City and County of New York; Josiah Caldwell, Appellant, against the Commercial Warehouse Co., Respondent. Note: Case relates to the surrender by the Commercial Warehouse Co. of certain securities pledged for alleged usurious loans. N. Y., no date. 22 pp., 9 x 6, b. p. no title-page. Af-296, p. 373.
- 196 **CURIOSIBHOY, ADERSEY, pseud.** Parsee letters, addressed to Horace Greely, Sahib, as originally published in the *New York World*. Note: Relates to the questions of Free Trade. no place, no date. 32 pp., 9 x 6, b. p. no title-page.
- 198 **CURRENT OBJECTIONS TO THE EXACTION OF ECONOMIC RENT BY taxation considered.** no place, no date. 45 pp., 9 x 6, b. p. no title-page.

Z]—(Continued).

- CURTIS, G. T.** Doctrine of presumed dedication of private property to public use, in its application to railroads. N. Y., 1881. 40 pp., 9 x 6, b. p. Ae-396, p. 138.
- Ownership of railroad property. N. Y., 1881. pp. 345-355, 9 x 6, b. p. Af-304, p. 525.
- DANA, R. H., Jr.** Speech in the House of Representatives of Massachusetts, Feb. 14th, 1887, on the repeal of the usury laws. N. Y., 1872. 23 pp., 9 x 6, b. p. Za-36, p. 411.
- DARDART, EMILE.** Exécution des travaux publics. (Bibliothèque du Conducteur de Travaux Publics.) 1901. (See V-127.)
- 188 **DE LEENER, GEORGES.** Les trusts en Belgique. Bruxelles, 1902. 18 pp., 10 x 6, pap.
- 182 **DEPEW, C. M.** Speech in the Senate of the United States, Apr. 2d, 1900. Note: Speech in favor of the bill temporarily providing revenue for the relief of the Island of Puerto Rico, and for other purposes. Wash., 1900. 24 pp., 9 x 6, pap.
- 190 **FISK & HATCH.** Memoranda concerning Government bonds, United States, State, and foreign, for the information of investors; with directions for buying and selling securities in the New York market; statistics of the growth and progress of the United States, a compendium of the Tenth Census, and gold and silver statistics. N. Y., 1882. 291 pp., tab., 8 x 5, cl.
- 51 **FLORIDA—COMMISSIONER OF LANDS AND IMMIGRATION.** Report; 1881-82, '85-88. Tallahassee, 1888-89. 3 v., 9 x 6, pap.
- 181 **FOWLER, C. N.** Twelve years of national administration, 1888 to 1900: The fallacies of W. J. Bryan exposed: Speech in the House of Representatives, June 2d, 1900. no place, 1900. 16 pp., tab., 9 x 6, pap. no title-page.
- 132 **GENERAL TAX LAWS OF THE STATE OF NEW JERSEY,** with explanations and instructions, by the Attorney-General and the decision of the Supreme Court. Jersey City, 1862. 108 + 1 pp., 9 x 6, pap.
- GRIER, J. A.** Our silver coinage and its relation to debts and the world-wide depression in prices. Phil., 1885. 108 pp., tab., 8 x 5, b. p. Za-40, p. 157.
- 196 **HARRIS, EDWARD, and others.** Wool and woollens: The truth of the report of the Special Commissioner vindicated by the testimony of woollen manufacturers of the United States. Note: Relates to the tariff on woollens. no place, 1870. 7 pp., 9 x 6, b. p. no title page.
- HAWES, G. P.** In the Senate of New York, Committee on General Laws; in the matter of the proposed legislation relative to trusts: Argument. no place, no date. 32 pp., 9 x 6, b. p. Za-33, p. 133.
- 191 **HEWITT, A. S.** Emancipation of labor: Speech delivered in the House of Representatives, Apr. 30th, 1884. Wash., 1884. 32 pp., 9 x 6, b. p.
- National banks and Bessemer steel works: Speech in the House of Representatives, May 16th, 1882. no place, 1882. 16 pp., 8 x 6, b. p. no title-page. Af-304, p. 435.
- 191 —Suspension of silver coinage: Speech in the House of Representatives, Monday, Mar. 2d, 1885. Wash., 1885. 8 pp., 9 x 6, b. p.
- HOLE, JAMES.** National railways: An argument for state purchase. 1893. (See Aa-88.)
- 9 **IDAH0 TERRITORY—GOVERNOR.** Report to the Secretary of the Interior; 1884, '86. Wash., 1884-87. 2 v., 9 x 6, pap.
- ILLINOIS—STATE BOARD OF EQUALIZATION.** Proceedings; 1873. Springfield, 1873. 1 v., tab., 9 x 6, b. p. Ah-77, p. 25.
- 193 **INGALLS, J. J.** Speech in the Senate of the United States, Jan. 23d, 1890. Note: Relates to the race question and disenfranchisement of the negro in the South. no place, 1890. 16 pp., 9 x 6, b. p. no title-page.
- 196 **JEANS, J. S.** England's supremacy; its sources, economics, and dangers. Lond., 1885. 24 + 447 pp., tab., 9 x 6, cl.
- 22 **JENKS, J. W.** Report on certain economic questions in the English and Dutch colonies in the Orient, by the Special Commissioner. (Bureau of Insular Affairs, War Dept.) Wash., 1902. 10 + 176 pp., il., 9 x 6, pap.
- 10 **KANSAS—GOVERNOR.** Message to the Legislature; 1891, '93, '95, '99. Topeka, 1891-99. 4 v., 9 x 6, pap.
- LANSING, G. L.** Growth and effect of railway consolidation. no place, 1883. pp. 577-589, 9 x 6, b. p. no title-page. Ab-455, p. 217.
- LAVELEYE, EMILE DE.** New tendencies of political economy; tr. fr. the *Revue des Deux Mondes*, by George Walker. N. Y., 1879. 27 pp., 9 x 6, b. p. Ae-395, p. 209.
- LEWIS, G. H.** National consolidation of the railways of the United States. 1893. (See Aa-92.)
- LLOYD, H. D.** Political economy of seventy-three million dollars. no place, 1882. pp. 69-81, 9 x 6, b. p. Af-304, p. 467.

Z]—(Continued).

- 191 **LORING, G. B.** Resumption of specie payments: Speech in the House of Representatives, Nov. 16th, 1877. Wash., 1877. 18 pp., 9 x 6, b. p.
- 85 **McKINLEY, WILLIAM.** President McKinley's last speech; delivered Sept. 5th, 1901, President's Day at the Pan-American Exposition, Buffalo. N. Y., 1900. 14 pp., 9 x 6, pap.
- MASSACHUSETTS—AUDITOR.** Report; 1st, 3d-4th, 15th, 29th, 32d, 34th-35th, 38th, 43d, 45th-50th; 1849, '51-52, '63, '77, '80, '82-83, '86, '91, '93-98. Bost., 1850-99. 13 v., 9 x 6, pap., cl.
- 8 **MASSACHUSETTS—BUREAU OF STATISTICS OF LABOR.** Annual report; 9th, 11th-15th, 17th, 30th-32d; for the fiscal year ending Mar., 1878, '80-84, '86, 1900-02. Bost., 1878-02. 10 v., 9 x 6, cl.
- MASSACHUSETTS—CENSUS, 1895.** Reports. Contents: v. 1-4, Population and social statistics. v. 5, Manufactures. v. 6, Fisheries, commerce and agriculture. v. 7, Social statistics and general summaries. 1896-1900. (See Qc-30.)
- 186 **MASSACHUSETTS—DISTRICT POLICE.** Report of the Chief, including the Inspection Department and the Detective Department; 1893. Note: Includes the inspection of factories and public buildings. Bost., 1894. 1 v., pl., 9 x 6, cl.
- MASSACHUSETTS—GENERAL COURT.** Chapters 11 and 12 of the General Statutes, and a compilation of the subsequent enactments now in force, regulating taxation by the local assessors in Massachusetts. Chapter 188, Acts of 1867. Bost., 1876. 103 pp., 9 x 6, b. p. Ye-293, p. 153.
- MASSACHUSETTS—TAX COMMISSIONER.** Tables of quotations of some of the stocks and securities taxable by the assessors of cities and towns in Massachusetts. (Tax Doc. 1872. No. 8.) Bost., 1872. 88 pp., tab., 9 x 6, b. p. Za-36, p. 195.
- MILLIKEN, JAMES.** New financial forces: Some comments upon President Depew's interview on Western land speculation. Bellefonte, Pa., 1887. unpag., 9 x 6, b. p. no title-page. Za-38, p. 23.
- 208 **MONTANA—BUREAU OF AGRICULTURE, LABOR AND INDUSTRY.** Report; 2d, 6th-7th; 1894 '98-1900. Note: 7th report is 1st biennial report. Helena, 1895-1900. 3 v., il., pl., maps, tab., 10 x 7, cl.
- 191 **NATIONAL BIMETALLIC COINAGE ASSOCIATION.** Memorial addressed to the United States Senate from the Executive Committee of the Association. Wash., 1886. 18 pp., 9 x 6, b. p.
- 201 **NATIONAL WOOLGROWERS ASSOCIATION.** Memorial to the Senate of the United States asking that no reduction shall be made of the duties on wool or woolen goods. (53d Cong., 2d Sess. Senate mis. doc. No. 77.) no place, 1894. 127 pp., pl., tab., 9 x 6, b. p.
- 201 **NATIONAL WOOLGROWERS ASSOCIATION, and others.** Appeal to the Senate of the United States not to place wool on the free list, but to retain the present duties. (53d Cong., 2d Sess. Senate mis. doc. No. 124.) no place, 1894. 173 pp., tab., 9 x 6, b. p.
- NEBRASKA—BOARD OF TRANSPORTATION.** Report to the Board upon the matter of the strike of the Brotherhoods of Locomotive Engineers and Firemen of the Burlington & Missouri River R. R. in Nebraska, by O. P. Mason, Secretary. Lincoln, 1888. 19 pp., 9 x 6, b. p. Aa-85, p. 75.
- 183 **NEW ENGLAND FREE TRADE LEAGUE.** Letters issued by the League. Note: Papers on the subject of trusts. N. Y., 1899-1901. 29 v., 9 x 6, pap.
- NEW YORK CITY—COMMISSIONERS OF ACCOUNTS.** Annual report; 1900. (See On25-9.1.)
- 4 **NEW YORK STATE—BUREAU OF STATISTICS OF LABOR.** Annual report; 1st, 5th-6th, 8th-10th, 11th, 18th; 1883, '87-88, '90-92, '93, 1900. Note: Vol. 1 of Report for 1894, wanting. Albany, 1886-1901. 19 v., pl., 9 x 6, cl., pap.
- 8 **NEW YORK STATE—COMPTROLLER.** Annual report for the year ending Sept. 30th, 1887, '93-98. Albany, 1888-99. 7 v., 9 x 6, cl., pap.
- 2 **NEW YORK STATE—FACTORY INSPECTORS.** Annual report; 13th-15th; 1898-1900. Albany, 1899-1901. 3 v., il., pl., tab., 9 x 6, cl.
- 211 **NEW YORK STATE—GOVERNOR.** Message; 1840-42. Albany, 1840-42. 3 v. in 1, 10 x 6, ¾ sh.
- NEW YORK CHAMBER OF COMMERCE.** Addresses by the Special Committee, delivered at Washington, Apr. 6th and 7th, 1880, before the House Committee of Ways and Means, on a proposed bill to reform the customs revenue laws. N. Y., 1880. 68 pp., 9 x 6, b. p. Za-39, p. 1.
- 184 —Report of the Committee on State and Municipal Taxation, Oct. 4th, 1900. Note: Report relates to New York State. N. Y., 1900. 36 pp., 9 x 6, pap.
- 184a —Same; corrected to June, 1902. N. Y., 1902. 37 pp., 9 x 6, pap.
- 191 **NEW YORK STATE CHARITIES AID ASSOCIATION.** Postal savings banks for the United States of America. N. Y., 1885. 23 pp., 9 x 6, b. p.
- 5 **OHIO—SECRETARY OF STATE.** Annual report to the Governor of the State of Ohio; 1st-2d; 1869-70. Columbus, 1870-71. 2 v., map, 9 x 6, pap.

Z]—(Continued).

- PHILIPPINE ISLANDS—MILITARY GOVERNOR.** Report on military operations and civil affairs in the Philippine Islands; 1889. (See La-21.)
- 192 **QUARTERLY JOURNAL OF ECONOMICS;** Apr., 1887, Jan., '89. no place, 1887-89. 2 v., 9 x 6, b. p.
- 191 **REPORT OF COMMISSIONERS OF THE STATE BUREAU OF LABOR STATISTICS** on the industrial, social and economic conditions of Pullman, Illinois. no place, 1884. 28 pp., 9 x 6, b. p.
- 189 **ROBERTS, G. E.** Coin at school in finance. N. Y., 1895. 176 pp., il., 8 x 5, pap.
- ROBERTS, PETER.** Anthracite coal industry: A study of the economic conditions and relations of the co-operative forces in the development of the anthracite coal industry of Pennsylvania, with an introd. by W. G. Sumner. 1901. (See Mb-56.)
- 129 **ROOT, ELIHU.** Speech at Canton, Ohio, Oct. 24th, 1900. Note: Speech in defence of the policy pursued by the Government in the Philippine Islands. no place, 1900. 38 pp., 9 x 6, pap.
- SANBORN, J. B.** Congressional grants of land in aid of railways. (Bulletin of the University of Wisconsin, Economics Ser.) 1899. (See Ab-232.)
- 198 **SCHWAB, G. H.** Shipping, tariffs and subsidies. N. Y., 1889. pp. 398-468, 20 tab., 9 x 6, b. p.
- SELIGMAN, R. A.** Railway tariffs and the interstate commerce law. 1887. (See Ae-66.)
- 198 **SHAW, J. J.** Mr. Gladstone's two Irish policies, 1868 and 1886: A letter to an Ulster Liberal elector. Lond., 1888. 40 pp., 9 x 6, b. p.
- SHEPLEY.** Circuit Court of the United States, District of Massachusetts; Nathan Matthews, Plaintiff, vs. the Massachusetts National Bank, Defendant: Opinion of the Court. Note: Case relates to the recovery of damages for losses sustained by Plaintiff through alleged fraudulent alteration of railroad certificates issued by bank. Bost., 1874. 10 pp., 9 x 6, b. p. Af-299, p. 598.
- 188 **SHERMAN, JOHN.** Against free coinage of silver: Speech in the Senate of the United States, May 31st and June 1st, 1892. Wash., 1892. 55 pp., tab., 9 x 6, pap.
- 198 **SMITH, J. Q.** Mr. Blaine on tariffs: An examination of his article in the *North American Review*. N. Y., 1890. pp. 38-48, 9 x 6, b. p.
- 191 **SPOONER, LYSANDER.** Our financiers; their ignorance, usurpations and frauds. Bost., 1877. 19 pp., 9 x 6, b. p.
- STATISTICAL AND SOCIAL INQUIRY SOCIETY OF IRELAND.** Journal; Jan., 1885-Jan., '68, Apr., '69. (See Sd6-34.1.)
- STERNE, SIMON.** Recent railroad failures and their lessons. no date. (See Ae-392.)
- 198 **STEWART, W. M.** "Money answereth all things": Speech in the Senate of the United States, Jan. 2d, 1889. no place, 1889. 15 pp., 9 x 6, b. p. no title-page.
- 200 **SULLIVAN, SIR EDWARD.** Protection to native industry. Lond., 1870. 117 pp., 9 x 6, cl.
- SWANN, JOHN.** An investor's notes on American railroads. 1886. (See Aa-99.)
- 204 **TOUZAC, PAUL.** Droit administratif. (Bibliothèque du Conducteur de Travaux Publics.) Paris, 1897. 10 + 511 pp., 8 x 5, ro.
- UNION LEAGUE CLUB OF NEW YORK.** Report of the Committee on Political Reform, on "civil service," May meeting, 1888. no place, 1888. 14 pp., 9 x 6, b. p. no title-page. Za-38, p. 75.
- UNITED STATES—BUREAU OF FOREIGN COMMERCE.** Trusts and trade combinations in Europe. 1900. (See Zd-14, Special consular reports, v. 21, Pt. 8.)
- 209 **UNITED STATES—BUREAU OF STATISTICS (STATE DEPT.).** Trade guilds of Europe. (Consular reports) Wash., 1886. 332 pp., 9 x 6, pap.
- 184 **UNITED STATES—BUREAU OF STATISTICS (TREASURY DEPT.).** Tables showing arrivals of alien passengers and immigrants in the United States from 1820 to 1888. Wash., 1889. 173 pp., tab., 9 x 6, pap.
- UNITED STATES—CENSUS, 9th, 1870.** Statistics of the wealth and industry of the United States, embracing the tables of wealth, taxation, and public indebtedness, of agriculture, manufactures, mining and the fisheries; comp. by Francis A. Walker. 1872. (See Qc-9.5.)
- 85 **UNITED STATES—CIVIL SERVICE COMMISSION.** Report; 17th-18th, for the fiscal year ending June 30th, 1900-01. Wash., 1901-02. 2 v., 9 x 6, cl.
- 194 —Report to the President, Apr. 15th, 1874. Wash., 1874. 98 pp., 9 x 6, b. p.
- 206 **UNITED STATES—56th CONGRESS—2d SESS.** Official Congressional directory for the use of the United States Congress; comp. by A. J. Halford; corrected to Nov. 27th, 1900. Wash., 1900. 21 + 847 pp., pl., 9 x 6, pap.

Zj—(Continued).

- 207 **UNITED STATES—57th CONGRESS—1st SESS.** Official Congressional directory for the use of the United States Congress; comp. by A. J. Halford; corrected to Dec. 5th, 1901. Wash., 1901. 11 + 320 pp., pl., 9 x 6, pap.
- 37 **UNITED STATES—DEPARTMENT OF LABOR.** Annual report of the Commissioner; 14th; 1890. Wash., 1900. 1 v., 9 x 6, cl.
- Preliminary report on the cost of production: pig iron, steel ingots, steel rails, coal, coke, iron ore, and limestone; by the Commissioner. Wash., 1890. 61 pp., 9 x 6, b. p. Ad-271, p. 671.
- Statement showing the direct cost of labor in the manufacture of one ton of steel rails in the United States, Great Britain, and on the Continent of Europe. (51st Cong., 1st Sess. Senate misc. doc. No. 212.) Wash., 1890. 9 pp., 9 x 6, b. p. no title-page. Aa-55, p. 95.
- 191 **UNITED STATES—DEPARTMENT OF STATE.** Report of the Secretary with information relative to gold and silver coinage in Europe. (49th Cong., 1st Sess. Senate ex. doc. No. 29.) Wash., 1886. 31 pp., 9 x 6, b. p. no title-page.
- 210 **UNITED STATES—DIRECTOR OF THE MINT.** Annual report for the fiscal year ended June 30th, 1901. Wash., 1901. 1 v., 9 x 6, cl.
- 130 **UNITED STATES—HOUSE COMMITTEE ON BANKING AND CURRENCY.** To maintain the gold standard, etc.; Report. (57th Cong., 1st Sess. House rep. No. 1425.) no place, 1902. 40 pp., tab., 9 x 6, pap.
- 191 **UNITED STATES—HOUSE COMMITTEE ON COINAGE, WEIGHTS AND MEASURES.** Free coinage of silver; Views of the Minority of the Committee. (49th Cong., 1st Sess. Report 524, Pt. 2.) Wash., 1886. 22 pp., 9 x 6, b. p. no title-page.
- UNITED STATES—HOUSE COMMITTEE ON THE POST OFFICE AND POST-ROADS.** Report relating to the establishment of a postal savings depository as a branch of the Post-Office Department. 1882. (See Zj-191, p. 537.)
- 205 **UNITED STATES—PHILIPPINE COMMISSION.** Report to the President, Jan. 31st, 1900. (56th Cong., 1st Sess. Senate doc. No. 138.) Wash., 1900. 2 v., tab., 9 x 6, cl.
- 202 **UNITED STATES—PRESIDENT.** Message, transmitting a report of the Secretary of War, containing the reports of the Taft Commission, its several acts of legislation, and other important information relating to the conditions and immediate wants of the Philippine Islands. Wash., 1901. 393 pp., il., tab., 9 x 6, pap.
- 196 **UNITED STATES—SPECIAL COMMISSIONER OF REVENUE.** Commissioner Wells's letter to the Proprietors of the Lehigh Crane Iron Co., Allentown Iron Co., and J. B. Moorhead & Co., and 13 others, relative to the cost of manufacturing pig-iron. Wash., 1870. 15 pp., 9 x 6, b. p.
- 196 —Statement relative to the cost of American pig iron. Wash., 1870. 14 pp., 9 x 6, b. p.
- UNITED STATES—TREASURY DEPARTMENT.** American fisheries: Reply of the Secretary to the Resolution of the House of Representatives of Dec. 14th, 1886. Note: Relates to tariff on fish. 1887. (See Zf-23.)
- 126 **WADDELL, JOHN.** Competition of the United States with the United Kingdom. no place, 1902. pp. 514-523, 9 x 6, pap.
- 25 **WASHINGTON TERRITORY—GOVERNOR.** Report; 1885-86, '89. Wash., 1886-89. 3 v., map, 9 x 6, pap.
- 191 **WEEKS, J. D.** Labor differences and their settlement: A plea for arbitration and conciliation. N. Y., 1886. 79 pp., 9 x 6, b. p.
- 191 **WELLS, D. A.** Governmental interference with production and distribution. no place, 1888. pp. 289-312, 9 x 6, b. p. no title-page.
- WHEELER, A. S.** Socialism: A paper read before the Unitarian Club of Boston, Feb. 12th, 1890. Bost., 1890. 26 pp., 9 x 6, b. p. Bf-34, p. 711.
- WRIGHT, J. A.** Control of railways by the general government. Phil., 1877. 35 pp., 9 x 6, b. p. Ae-398, p. 289.

MISCELLANEOUS—RELIGION.**Zk**

- BALDWIN, S. E.** In the matter of the complaint of J. W. Wellman, *et al.*, vs. Egbert C. Smyth, Brown Professor of ecclesiastical history; the opening argument for the Defence in the Andover case, made Dec. 29th, 1886, before the Board of Visitors of Andover Seminary. Bost., 1887. 20 pp., 9 x 6, b. p. Zj-191, p. 551.

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